

# BARNARD

The Undergraduate College of Liberal Arts for Women of Columbia University

## 1986-1987 CATALOGUE

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BARNARD COLLEGE  
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# College Calendar 1986-87

## AUTUMN TERM—NINETY-EIGHTH YEAR

<b>Freshman and Transfer Registration</b>	<b>Aug. 27, 29 (W, F)</b>
<b>Upperclass Registration</b>	<b>Sept. 2, 3, 4 (Tu, W, Th)</b>
<b>Language Placement Examinations</b>	<b>Sept. 3 (W)</b>
<b>Classes begin 9:00 a.m.</b>	<b>Sept. 4 (Th)</b>
<b>Last day to submit work for courses in which grades of I were given in the Autumn Term 1985 and Spring Term 1986</b>	<b>Sept. 4 (Th)</b>
<b>Deferred examinations</b> for students absent from May 1986 final examinations in Barnard courses. Deferred examinations for C, F, G, W, and other Columbia courses must be taken before the end of the semester.	<b>Sept. 3, 4, 5 (W, Th, F)</b>
<b>Program filing. Last day to file Autumn Term programs 5:00 p.m.</b>	<b>Sept. 12 (F)</b>
<b>Last day to add a course</b>	<b>Sept. 12 (F)</b>
<b>Last day to file Spring Term Senior Scholar applications</b>	<b>Oct. 10 (F)</b>
<b>Last day to file diploma name cards for the degree in January 1987</b>	<b>Oct. 10 (F)</b>
<b>MIDTERM DATE</b>	<b>Oct. 21 (Tu)</b>
<b>Award of October Degrees</b>	<b>Oct. 22 (W)</b>
<b>Required meetings for planning programs</b>	<b>Oct. 30 (Th)</b>
<b>Program planning and sign-up period for all students</b>	<b>Oct. 30 - Nov. 18 (Th-Tu)</b>
<b>Academic Holiday</b>	<b>Nov. 3 (M)</b>
<b>Election Day Holiday</b>	<b>Nov. 4 (Tu)</b>
<b>Major examinations for January graduates</b>	<b>Nov. 12-14 (W-F)</b>
<b>Last day to drop a course</b>	<b>Nov. 13 (Th)</b>
<b>Last day for freshmen and first semester sophomores to file tentative Spring Term programs with Class Advisers</b>	<b>Nov. 18 (Tu)</b>
<b>Thanksgiving Holidays</b>	<b>Nov. 27-30 (Th-Sun)</b>
<b>Last day to file requests for pass-fail grades</b>	<b>Dec. 3 (W)</b>
<b>Last day to withdraw from a course</b>	<b>Dec. 3 (W)</b>
<b>Optional reading period</b>	<b>Dec. 5-10 (F-W)</b>
<b>Required reading day</b>	<b>Dec. 11 (Th)</b>
<b>MIDYEAR EXAMINATIONS BEGIN</b>	<b>Dec. 12 (F)</b>
<b>Last day for payment of bill for Spring Term</b>	<b>Dec. 15 (M)</b>
<b>Last day for refund of Spring Term Deposit</b>	<b>Dec. 15 (M)</b>
<b>Autumn Term ends</b>	<b>Dec. 19 (F)</b>
<b>Winter recess</b>	<b>Dec. 20 - Jan. 18, 1987 (Sat-Sun)</b>



## SPRING TERM 1987

<b>Registration</b>	<b>Jan. 14, 16, 19 (W, F, M)</b>
<b>Last day to file application for deferred examinations in Barnard courses</b>	<b>Jan. 16 (F)</b>
<b>Last day to submit to Office of the Registrar work from Autumn Term 1986 for removal of I</b>	<b>Jan. 16 (F)</b>
<b>Classes begin 9:00 a.m.</b>	<b>Jan 19 (M)</b>
Language Placement Examinations	<b>Jan. 19 (M)</b>
Award of January degrees	<b>Jan. 21 (W)</b>
<b>Deferred examinations</b> for students absent from December 1986 final examinations in Barnard courses. Deferred examinations for C, F, G, W and other Columbia courses must be taken before the end of the semester.	<b>Jan. 21, 22, 23 (W, Th, F)</b>
<b>Program filing. Last day to file programs 5:00 p.m.</b>	<b>Jan. 28 (W)</b>
<b>Last day to add a course</b>	<b>Jan. 28 (W)</b>
<b>Last day to file diploma name cards for the degree in May 1987</b>	<b>Feb. 6 (F)</b>
<b>Last day to submit 1987-88 Senior Scholar applications</b>	<b>Feb. 24 (Tu)</b>
<b>MIDTERM DATE</b>	<b>Mar. 5 (Th)</b>
Spring Holidays	<b>Mar. 7-15 (Sat-Sun)</b>
<b>Last day to drop a course</b>	<b>Mar. 19 (Th)</b>
Major examinations for May and October graduates	<b>April 8-10 (W-F)</b>
Required meetings for planning programs	<b>April 9 (Th)</b>
<b>Program-planning and sign-up period for all students</b>	<b>April 9-28 (Th-Tu)</b>
<b>Last date for sophomores to declare major choices</b>	<b>April 10 (F)</b>
<b>Last day to file application for 1987-88 financial aid</b>	<b>April 15 (W)</b>
<b>Last day to file request for pass-fail grades</b>	<b>April 22 (W)</b>
<b>Last day to withdraw from a course</b>	<b>April 22 (W)</b>
Phi Beta Kappa-Honors Convocation	<b>April 23 (Th)</b>
Optional Reading period	<b>April 24-29 (F-W)</b>
<b>Last day for freshmen to file tentative Autumn Term programs with Class Advisers</b>	<b>April 28 (Tu)</b>
<b>Last day to file diploma cards for the degree in October 1987</b>	<b>April 28 (Tu)</b>
Required reading day	<b>April 30 (Th)</b>
<b>FINAL EXAMINATIONS BEGIN</b>	<b>May 1 (F)</b>
Spring Term ends	<b>May 8 (F)</b>
<b>Baccalaureate Service</b>	<b>May 10 (Sun)</b>
<b>Conferring of Degrees</b>	<b>May 13 (W)</b>
<b>Last day to file application for deferred examinations in Barnard courses</b>	<b>May 22 (F)</b>
<b>Last day to submit to Office of the Registrar work from Spring Term 1987 for removal of I</b>	<b>June 5 (F)</b>
<b>Registration for Autumn Term</b>	<b>Sept. 3, 4, 7 (Th, F, M)</b>
<b>Classes begin 9:00 a.m.</b>	<b>Sept. 8 (Tu)</b>







# I. The College

Barnard is a selective liberal arts college for women, affiliated with Columbia University and integrally related to New York City. Barnard is committed to the fundamental values of the liberal arts and sciences, and our curriculum reflects that commitment. The cultural and social resources of New York and the intellectual resources of Columbia University are as important a part of an undergraduate education at Barnard as the commitment to learning and scholarship that is everywhere apparent in the College environment.

Because the liberal education offered at Barnard is broad in scope and demanding, admission to the College is competitive. For those who are admitted, four years at the College present an extensive array of opportunities both to contribute to the community and to draw from it, and the College seeks to admit diversified groups of students who will benefit to the fullest extent from the Barnard experience. Barnard is a university college in an international city, and today the curriculum affirms and encourages extensive use of its vast metropolitan resources.

## **BARNARD'S HISTORY**

Barnard College was among the pioneers in the late nineteenth century crusade to make higher education available to young women.

Barnard College grew out of the idea, first proposed by Columbia University's tenth president, Frederick A.P. Barnard, that young women share in the opportunity for higher education. Initially ignored, the idea was developed by President Barnard until it led to the creation of a "Collegiate Course for Women." Under the new plan highly qualified women were authorized to follow a prescribed course leading ultimately to Columbia University degrees, but no provision was made for where and how they were to pursue their studies. This arrangement was abandoned six years later when Columbia's trustees agreed to the establishment of an affiliated college for women. A provisional charter and the promise of funds were secured, and Barnard College was named in honor of its earliest and most persistent advocate.

In October, 1889, the first Barnard class met in a rented brownstone house at 343 Madison Avenue with fourteen students enrolled in the School of Arts, twenty-two "specials" enrolled in science because they lacked the entrance requirements in Greek, and a faculty of six.

Nine years later Barnard moved to its present site on Morningside Heights, and in 1900 was included in the educational system of Columbia University with provisions which at that time were unique among women's colleges: it was to be governed by its own Trustees, Faculty, and Dean, and was responsible for its own endowment and plant, while sharing the instruction, the library, and the degree of a university.



# The College

## BARNARD TODAY

Today Barnard has a faculty of over 246 men and women, outstanding scholars whose primary concern is the education of undergraduate students at the College, and many of whom bring an added vitality to their teaching from their professional activities outside the classroom. From the original fourteen matriculated students, enrollment has increased to 2,200; since 1893 Columbia University has awarded its degree to 24,500 Barnard students. The original gifts of support have expanded to the current endowment funds of \$37,937,000.

In 1982, Barnard College and Columbia University amended and extended their long-standing agreement for cooperation between the two institutions. Barnard is an independent liberal arts college for women with its own curriculum, faculty, admissions standards, and graduation requirements, as well as trustees, endowment, and physical plant. At the same time, Barnard and Columbia share resources, and Barnard and Columbia students thereby have open access to the courses offered by either institution and to each other's faculty, libraries and facilities. Barnard and Columbia students also share in extracurricular activities and daily life.

More than fifty years ago, Nicholas Murray Butler, one of Columbia's great presidents, observed, "New York is intensely cosmopolitan and contact with its life for a short time during the impressionableness of youth is in itself a liberal education." The city is an extension of the campus, utilized by every department to narrow the gap between learning and living.

## THE LIBERAL ARTS CURRICULUM

A liberal arts education at Barnard is composed of a broad distribution of course work with intensive study in a departmental or disciplinary major.

As befits a College of Barnard's quality, the Faculty is regularly engaged in considering and reconsidering all aspects of the curriculum. In 1982 this process resulted in the adoption of a new set of degree requirements—a program of courses that the Faculty believes will offer stimulating and enriching education opportunities for all students, while at the same time permitting each to tailor the manner in which the requirements are fulfilled to suit her own propensities, strengths, and interests. The new degree requirements will apply to students who begin their studies at Barnard in the fall of 1984 and thereafter; they are fully described on page 33. Degree requirements for those admitted prior to 1984 are listed on page 36.

Assistance in planning her individual course of study is given by the student's class adviser, a member of the teaching staff who supervises the work of the freshman and the sophomore years. At the end of this period, each student chooses her major field. During the junior and senior years her major adviser guides advanced study in the areas of concentration and other phases of college work. Twenty-seven departments offer major programs and eight interdepartmental majors are also available.

Classes vary in size. Those in which student participation is important are small. Introductory courses and classes taught primarily by the lecture method are often divided into small groups for conference and discussion. Laboratory work in the sciences is conducted with modern laboratory equipment. There are opportunities for independent work and students may also be invited to participate in research projects with members of the Faculty.

Adele Lehman Hall contains the Wollman Library and two floors of faculty offices and classrooms. The library includes the reserve room and the Academic Computing Center on the first floor, the reference area, periodicals, microforms, and open book stacks on the second floor, and on the third floor audiovisual facilities, Barnard archives, and more open stacks. Computer facilities for the Economics and Political Science departments are also located in Lehman. The building overlooks a lawn surrounded by trees and shrubs.



# The College

## THE FACULTY

The Barnard faculty consists of scholar-teachers who have long recognized that their teaching depends upon their scholarship and grows out of it. The range of the Barnard curriculum fairly reflects this understanding, both in its concentration upon the traditional disciplines of learning and in its innovative interdisciplinary programs. The scholarly commitment of the Barnard faculty is constantly shown, too, in the variety and quality of its many research projects, its books and articles in learned journals, its participation in academic societies, and its many different kinds of publication and performance. But its abiding achievement is a constant demonstration in the classroom of the binding ties of teaching and scholarship to each other which simply will not accept the possibility of any serious conflict between them. For in these central functions, Barnard's scholar-teachers honor the enduring values of their profession.

## SPECIAL CONCERNS ABOUT THE EDUCATION OF WOMEN

The mission of Barnard College is the provision of undergraduate education of the highest quality in an environment that is particularly sensitive to the intellectual and personal needs of its women students. While Barnard College students enjoy a range of curricular and extracurricular opportunities with Columbia University, at Barnard they benefit from an atmosphere in which women currently comprise approximately 50% of the tenured faculty and are well-represented on all levels of the administration. These women serve as important role models for our students, who in turn are encouraged to assume positions of leadership while on campus that equip them for similar roles later in life.

Acknowledging today's complex and changing climate for women, the Barnard Women's Center exists to offer a wide range of programs and services, both academic and non-academic. These include an extensive resource collection of books, articles, and periodicals, conferences, speakers, films and poetry readings. The Center strives to provide continuity and links between students and alumnae, and between the College and women on and off the campus.

## SPECIAL EDUCATIONAL OPPORTUNITIES

Barnard's location in America's largest and most diverse city and its affiliation with one of the nation's most distinguished universities make it possible for the College to offer some truly unusual educational opportunities. Some of these are formal programs, while others are resources tapped by students on an individual basis. The vast curricular resources of Columbia University are easily available to the student—including such academic areas as non-Western cultures and literatures, an extensive number of exotic languages, international studies, advanced scientific and technological studies, etc. Schools on Morningside Heights with which Barnard has formal programmatic relationships—each of which is described in more detail elsewhere in this catalogue—include the Manhattan School of Music, the Jewish Theological Seminary of America, Columbia's School of Law, the School of Engineering, the School of International and Public Affairs, Teachers College, and the Graduate School of Architecture and Planning. Many other academic organizations—both within and outside the University—offer opportunities for research, study, studio experience, career internships, or other relationships, depending on the special needs and interests of the individual student.

## THE CAMPUS

The Campus occupies four acres of urban property along Broadway between 116th and 120th Streets. At the southern end of the campus, three residence buildings, Brooks, Hewitt, and Helen Reid Halls, face a landscaped quadrangle.

Barnard Hall is just north of the open courtyard and contains seminar rooms, classrooms, and faculty offices, as well as a gym, a swimming pool, and dance studios. The Sulzberger Parlor on the third floor is used for meetings and small social events.

# The College

Helen Goodhart Altschul Hall and the Millicent McIntosh Center, which were dedicated jointly in November 1969, face each other across an open plaza. The fourteen stories of Altschul Hall are devoted primarily to the sciences but also house the Herbert H. Lehman Auditorium on the first floor, and a language laboratory on the fourth. The laboratory, which contains 60 booths, is used by both Barnard and Columbia language students. Headquarters for student activities, a snack bar and a lounge are located in the McIntosh Center. Student mailboxes are there as well as music practice rooms, recreation and television rooms, bowling alleys, an art exhibit area and the Jean T. Palmer Room for conferences.

Milbank Hall occupies the northern extreme of the campus and houses administrative and faculty offices, classrooms, a greenhouse, and the Minor Latham Playhouse, a small well-equipped modern theater. The language departments maintain social and reading rooms in Milbank Hall.

Off campus, but in the immediate neighborhood, Barnard maintains other residence halls, including 600, 616 and 620 West 116th Street, three apartment buildings; Plimpton Hall, completed in 1968; and a newly-renovated building at 49 Claremont Avenue.

Barnard Camp is a 20-acre tract in Westchester County about 35 miles from New York City. The Camp and its rustic lodge, Holly House, are used by the College for both recreational and educational purposes.

Columbia University is directly across Broadway from the Barnard campus.

## STUDENT LIFE

Barnard's student population is cosmopolitan in nature, coming from nearly every state and some fifty foreign countries, while one-third of the students have families within commuting distance. They represent diversity in background and training, and a mingling of economic, regional, and cultural strains that finds expression in the life of the campus. Every student belongs to a "house," a group that includes faculty and staff associates, commuting students, and residents. Each house plans its own informal gatherings, continuing programs, and special events. The Thursday Noon Meeting at Barnard provides a campus-wide weekly forum for discussion of contemporary issues, and periodic lecture and conference series bring world-renowned scholars to the College.

All Barnard students are members of the Student Government Association, which provides general leadership and advocacy for student organizations. Students, faculty, and administrators serve on college committees, sharing responsibility for policy recommendations in the areas of curriculum, housing, financial aid, orientation, and the library. The Student Government Association sponsors many extracurricular activities: the college newspaper, the literary magazine, dramatic groups, political and religious organizations, and pre-professional and departmental clubs. Student artists with a diversity of talents and interests collaborate to produce Winter and Spring Festivals.

Cooperation among Barnard and Columbia groups is common. Many activities such as the University's chorus and its orchestra, its radio station, and a community service program enlist members from both campuses. Religious organizations and activities with headquarters on the Columbia University campus at Earl Hall encompass nearly every faith and are open to all students. Urban New York, a joint Barnard-Columbia program, offers unusual opportunities throughout the year for students, faculty, and staff to experience together the cultural, political, and social life of the city.

The Honor Code, instituted at Barnard in 1912, governs all aspects of academic life. A Judicial Council of undergraduates, faculty, and staff recommends disciplinary action for non-academic offenses.

The Columbia University/Barnard College Athletic Consortium (Division I of the NCAA) sponsors nine varsity intercollegiate teams including Archery, Basketball,



# The College

Cross Country, Fencing, Swimming & Diving, Tennis, Indoor and Outdoor Track & Field, and Volleyball. The Athletic Consortium is just one of three in the nation and the only one on a Division I level. Women students at Barnard College along with women enrolled at the other undergraduate divisions of Columbia University have the opportunity to compete on all nine university-wide teams. Scheduled competition includes schools in the Ivy League, Seven Sisters, the metropolitan area, and the eastern region. Individuals and teams have the opportunity to advance to state, regional, and national competition. For students interested in less competitive programs, the Recreational Athletic Association (RAA) sponsors volleyball and basketball intramurals, sports clubs, recreational swim, open gym time, and special events.

Barnard has a high retention rate of students, an indication of their satisfaction with their college experience. Barnard students also enjoy leaves for study, travel, and internships. Every year Barnard admits about 100 transfer students, who come to take advantage of the educational opportunities available to Barnard women.

Every year the Office of Career Services collects and summarizes information about post-baccalaureate study and employment. In the first year after graduation, 45 to 50% of those who receive the degree enter full-time graduate or professional study at once, with the largest proportions opting for medical schools (10-12%), law schools (10-12%), business schools (1-2%), and education schools (2-3%). The rest, with the exception of fewer than 1%, obtain employment in business and industry, the arts, communications, teaching, social services, and other fields.



**Ellen V. Futter**  
**Barnard President**





# II. Admission

## Selection of Candidates

The Committee on Admissions selects young women of proven academic strength who exhibit the potential for further intellectual growth. In addition to their high school records, recommendations, and College Board scores, the candidates' special abilities and interests are also given careful consideration. While admission is highly selective, no one criterion determines acceptance. Each applicant is considered in terms of her individual qualities of mind and spirit and her potential for successfully completing four years of study at Barnard.

Barnard also seeks students from diverse educational and cultural backgrounds and from many geographic regions. However, no preconceived profile of an ideal student population limits the number of applicants accepted from any one group. The College admits students and administers its financial aid and loan programs, educational policies and programs, recreational programs and other College programs and activities without regard to race, color, creed, national origin, or handicap.

## Freshman Application Procedures

Students are admitted to the freshman class in September and, in limited numbers, in January. They must be at least fifteen years of age.

Application for admission to the freshman class should be made by February 1 for entrance in September of the same year. It is advisable, however, to apply in the fall of the senior year in high school. Application forms may be obtained by writing to the Office of Admissions.

A nonrefundable fee of \$35 must accompany each application. Checks or money orders must be in U.S. funds drawn on a U.S. bank and made payable to Barnard College. Students with great financial need should request a fee-waiver from their high school counselor and send it with the application.

## Secondary School Preparation

Each candidate for admission must offer a college preparatory program from an approved secondary school or an equivalent education representing a four-year course of study. Academic preparation for admission should be based on the requirements for the A.B., or liberal arts, degree. A recommended program would comprise four years of work in English; three years in mathematics; three or four years in a foreign language (ancient or modern); two years in science with laboratory; and one year in history. An introduction to a second foreign language is generally useful. The remainder of the program would include additional work in the aforementioned subjects with the possible addition of music and art. Applications varying from this pattern are considered without discrimination if the candidate's records indicate genuine intellectual ability and high motivation.

## College Boards

Barnard requires all freshman candidates to take the College Board's Scholastic Aptitude Test (SAT) and three Achievement Tests, one of which must be in English composition or literature. These tests should be taken by January of the senior year. As early as possible, candidates should write **directly** to the College Board, Box 592, Princeton, New Jersey 08540 for the Bulletin of Information containing descriptions of the Scholastic Aptitude and Achievement Tests, directions for filing applications, the dates on which examinations are administered, and a list of examination centers. Dates vary from year to year and applications to take the tests must be received by the CB well in advance of the test. Disabled students who require nonstandard administration of the SAT should consult with their guidance counselors for testing accommodations.

**It is the student's responsibility to direct the College Board to send official test scores to the Office of Admissions.** The Barnard College code for this purpose is 2038.

## Recommendations

Another important part of the application is the submission of two recommendations, one from the high school counselor and the other from a teacher of the candidate's choice. These recommendations give the Committee on Admissions additional

# Admission

information about the candidate's interests, character, skills, and aptitude, and should be as complete as possible.

## Interviews

Although not required, an interview is highly recommended. For students who are able to visit the campus, interviews and tours can be arranged by writing or calling the Office of Admissions (212-280-2014). Appointments are scheduled Monday through Friday from nine-thirty to twelve in the mornings and from two to four in the afternoons, and on Saturday mornings. For those who are unable to arrange interviews at the College, appointments can be made with Barnard Area Representatives whose names are listed on pages 289-296 or with the College Admissions Officers who visit major metropolitan areas throughout the country each fall.

## SPECIAL APPLICATION PROCEDURES

### Early Decision

Well-qualified high school seniors who have selected Barnard as their first choice college may apply under one of two Early Decision Plans (EDP). To be considered under the *Fall Early Decision Plan*, a candidate should submit her application and other required credentials (listed above under freshman application procedures) to the Office of Admissions by November 15. She will be notified of the Committee's decision no later than December 15. To be considered under the *Winter Early Decision Plan*, a candidate should submit a completed application, with all supporting credentials, by January 15 for notification of the Committee's decision no later than February 15. Under either plan, a student may initiate regular applications to other colleges; she must, however, withdraw all other applications upon admission to Barnard. (Notification of financial aid for those candidates who have demonstrated financial need will follow the admissions decision.) To reserve a place in the freshman class, an Early Decision student must submit a nonrefundable enrollment deposit following her decision to enroll. This deposit is applied toward total annual tuition and fees for the freshman year.

The Winter Early Decision Plan recognizes that some candidates may decide on their college preference later than others. The same criteria are used in the evaluation of applicants under both plans. The Committee on Admissions may choose to postpone decision on any EDP application until the spring. In that event, the student is asked to submit a record of school work from the first half of the senior year.

### Centennial Scholars Program

The Centennial Scholars Program offers a limited number of intellectually self-directed students with advanced preparation an early opportunity to engage in challenging independent projects tailored to their individual interests.

The Program is limited to fifteen students in any single class, approximately eight to ten to be appointed at the time of their admission and additional selections to be made in the following two terms. Admission of an entering freshman to the Program is based on the secondary school record, recommendations of her counselors and teachers, her personal statement, and the College Board test scores, required of all Centennial Scholar applicants. Consideration of the matriculated freshman or sophomore requires recommendations of faculty members speaking to the aforementioned criteria. The Program confers a maximum of 18 points of credit. In the spring of the student's first year as a Centennial Scholar, she enrolls in a course designed to lay the foundation for the core of the Program, an extended apprenticeship with her mentor(s). The project, for which research funds are available, extends serially over two to three semesters, and may include a summer to accommodate travel or other particular needs. The Program culminates in the Centennial Scholars Symposium devoted to the presentation of the project in the spring following its completion. Monthly dinner lectures and the publication of a journal are additional features of the Program.



# Admission

Centennial Scholars pursue a full program of study and are responsible for the fulfillment of all degree requirements, some of which may be met before matriculation by qualifying scores on Advanced Placement tests.

## Deferred Enrollment

An admitted freshman or transfer student who wishes to defer enrollment in Barnard for one year must obtain permission by writing to the Director of Admissions explaining the reasons for the deferral request. Such a request is normally granted for purposes of work, travel, or pursuit of a special interest.

## Foreign Students

Each year Barnard enrolls a number of qualified foreign students. These students are expected to follow the same application procedures and present the same credentials as other candidates, including the Scholastic Aptitude Test (SAT) and three Achievement Tests. Foreign students who are considering Barnard are encouraged to communicate with the Director of Admissions well in advance of entrance so that the College may assist them with their plans.

Knowledge of the English language is essential for admission. Those students whose native language is not English are required to take the Test of English as a Foreign Language (TOEFL). Information about registration for the test is obtained by writing the TOEFL Program, Educational Testing Service, Princeton, New Jersey 08540. If the TOEFL scores cannot be presented, students are required to take the American University Language Center Test. Arrangements for it should be made through the United States Consulate.

After enrolling at Barnard, foreign students receive assistance with academic placement from the Foreign Student Adviser in the Office of the Dean of Studies.

## Transfer Students

Barnard welcomes transfer students in the sophomore and junior classes each year. Application for admission with advanced standing should be made by **May 1** for admission in September and by **November 1** for admission in January.

Each candidate must submit a formal application and the following credentials: the secondary school record, the results of the SAT or, if appropriate, the TOEFL, a recommendation from the secondary school counselor and from the college dean or adviser, an official transcript of all college work, and a copy of the college catalogue in which the courses taken are clearly marked.

A strong record of not less than one year's work at an accredited college, foreign university, or equivalent institution is required. In some cases, advanced credit cannot be assigned until a student has had an opportunity to establish a satisfactory record at Barnard, but, in general, credit is given for courses which are similar in content and depth to Barnard courses.

After acceptance, academic and general guidance is provided by the Advisers to Transfer Students in the Office of the Dean of Studies. For information on financial aid, students should consult page 21.

## Visiting Students

Qualified students who are degree candidates at other colleges may apply for admission as visiting students (Other College Degree Candidates) for one or two semesters. Each applicant must present a satisfactory college record and a letter of approval from the dean or major adviser from the degree-granting school.

## Readmission

Barnard students who have not been registered for one or two terms may return without applying for readmission by notifying the Dean of Studies. Students who have not been registered for more than two consecutive semesters must apply for readmission to the Director of Admissions by **November 1** for the Spring term and by **May 1** for the Autumn term. A nonrefundable fee of \$35 must accompany each application.



# Admission

## Resumed Education Program

Former Barnard students who wish to return to the College after an absence of at least five years to complete the A. B. degree or for further study in new areas of interest after graduation may obtain applications from the Director of Advising and Services for Resumed Education Students in the Office of the Dean of Studies.

## Admission with Advanced Placement

Credit for advanced work completed in secondary school is determined on the basis of Advanced Placement scores and by the policy of the Barnard department concerned. Departmental policies are outlined below. As much as a year of degree credit (normally 30 points) can be granted.

Department	AP Score	Credit	Requirement Status
Art History	4 or 5	3 pts.	
Biological Sciences	4 or 5	3-6 pts.	exemption (with review of lab notes)
Chemistry	4 or 5	3-8 pts.	exemption (with review of lab notes)
English	4 or 5	3 pts.	exemption
Foreign languages	5	6 pts.	exemption
	4	3 pts.	exemption
History	5	6 pts.	
	4	3 pts.	
Mathematics	4 or 5	Calculus A-B: 3 pts. and placement in IIA or B;	
	3	3 pts. if IIA or B passed.	
	4 or 5	Calculus B-C: 6 pts. and placement in IIIA, B, or C;	
	3	3 pts. if IIA or B passed; 6 pts. if IIIA or B passed.	
Music	4 or 5	3 pts.	
Physics	4 or 5	3-6 pts.	exemption (with review of lab notes)

## Other Degree Credit

Students who have satisfactorily completed college courses before their freshman year at Barnard may apply for a maximum of 15 points of degree credit. The courses, intended primarily for college students, must be taught in an accredited college by members of its faculty. With the exception of Advanced Placement courses overseen by the College Board, courses taught in a high school, either by specially trained high school teachers or by college instructors, will not be credited toward the Barnard degree. Any course counted toward the high school diploma cannot receive degree credit.



# III. Financial Information

## Annual Tuition and Fees

The costs of education at Barnard are met by tuition, income from endowment, current gifts from alumnae and other friends of the College, and grants from foundations, corporations, and government agencies. The College makes every effort to limit charges to students; but must reserve the right to set tuition and fees at the level necessary for the maintenance of a high quality of instruction.

## Schedule of Annual Tuition and Fees

The following tuition and fees are required from all students for the Academic Year 1986-1987 and are subject to change without prior notice.

### Tuition:

<b>Full program</b> (12-18 points)	\$10,900
<b>Partial program</b> (1-11½ points)	363 per point
<b>Excess program</b> (over 18 points)	363 per point

**Program for Resumed Education.** Tuition is assessed on the basis of a schedule available from the Director of the program in the Office of the Dean of Studies.

### Comprehensive Fee Includes:

Health Service (see page 31)	\$448.00
Accident and Sickness Insurance (see page 32)	
Student Government Association Student Activity Fee	

The following fees are required from all students occupying college housing facilities for the Academic Year 1986-1987.

### Residence Charges

Brooks, Hewitt and Reid Halls (Board required—see schedule below)

All other college housing (see schedule below)

Single occupancy	\$3,340
Multiple occupancy	2,980

### Board Charges—Required of all those living in Brooks, Hewitt or Reid (BHR)

19 meals per week—minimum requirement of BHR freshmen	2,022
15 meals per week—minimum requirement of freshmen in other dorms	1,808
10 meals per week	1,674



# Financial Information

## Other fees—required if applicable

Application for admission	35
Registration in absentia (per semester)	75
Physical education—part-time students (per course)	363
Orientation fee—All Freshmen and Transfers entering in the Autumn Term	75
Senior fee—All graduating seniors	90
Film fees	
Art History—Autumn	5
Art History—Spring	30
French	20
Italian	20
Laboratory fees (per laboratory course)	
Biological Sciences	35
Chemistry—General	28
Chemistry—Other	35
Bio-Chemistry	45
Computer Lab (per semester)	25
French	5
Psychology	15

## Payment of charges and fees

All charges and fees (unless otherwise noted) are billed on a semester basis. The Autumn Term tuition is due August 1. The Spring Term tuition is due by December 16. Payments received after these dates are subject to a late processing fee of \$50. Registration for either semester will not be complete until all College costs have been paid. Failure to complete registration on time imposes a late registration fee. Occupancy of an assigned dormitory room will not be permitted until charges have been paid in full as required. Students admitted after August 1 or December 16, respectively, must pay the balance due by the first day of registration.

Financial aid grants and any loans applied for may be deducted from the semester charges before computation is made of the balance due.

Privileges of the College, including issuing of transcripts and diplomas, and administration of examinations, are not available to any student who is delinquent in the payment of her College bills. When bills are **not** paid in full by their due date or satisfactory arrangements for their payments have not been made with the Bursar, the student will not be allowed to register and may be required to withdraw from the College.

**All charges and fees are subject to change at any time at the discretion of the Board of Trustees.**

Checks or money orders in payment of tuition and fees must be in U. S. funds (at a U. S. bank) payable to Barnard College. Checks or money orders should be made out for the exact amount of the payment due.

## Deposits

To obtain a place on the College roster for the ensuing academic year, each student who is currently enrolled must pay a deposit of \$200 toward annual tuition and fees on or before May 10. An applicant for admission must pay a \$200 non-refundable tuition deposit upon acceptance of the offer of admission to Barnard College.

## Students in Residence

New students who have been offered residence space must submit a housing deposit of \$100 by May 10. If the Office of Residential Life is notified of a cancellation of the room request by July 1, \$100 will be refunded or credited to the student's account. All returning "resident" students must pay the \$200 room deposit in person prior to the room lottery held in March (\$100 is non-refundable to those students who participate in the room lottery).



# Financial Information

## Deferred Payment

For students and parents desiring to pay education costs in monthly payments, a choice of payment plans is available. The College has arranged to participate in the Tuition Plan of New Hampshire, tuition plans offered by Knight Insurance Agency, Inc., and the payment plan of Academic Management Services Inc. Information can be obtained from the Barnard Bursar.

## Adjustment of tuition

**For changing program of study.** If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be credited the excess only if the alteration in her program is made by September 12 (last day of program filing) in the Autumn Term and by January 28 in the Spring Term. If the new program calls for higher tuition, the student is responsible for paying the additional charges promptly.

## Refunds

**For withdrawal.** If a student withdraws from the College **before July 1**, the following amount of tuition and residence fees will not be refunded:

Tuition	\$200
Resident Fees	\$200 (\$100 for new students)

A pro-rata credit of remaining charges is made on a semester-by-semester basis in accordance with the following schedule:

**Fees.** All required fees are non-refundable after Autumn and Spring Term registration dates as noted in the College calendar.

**Tuition.** Tuition credit for withdrawal is as follows:

Up to and including the first Friday of the term—full credit except deposit (\$200). After the first Friday of the term, 10% of tuition will be retained by the College for each week or part of a week up to the date on which the student's written notice of withdrawal from the College is received by the Office of the Dean of Studies.

**Residence Charges.** Up to the first day of classes—full credit except deposit (\$200). In the event of withdrawal from housing while still enrolled in the College, 80% of charges will be forfeited during the first two weeks after the first day of classes. Thereafter the entire amount for the semester will be forfeited.

**Optional Board Plan.** Pro-rata credit from the date the meal card is received by Food Service, less \$50 non-refundable deposit.

## Safekeeping of Students' Funds

Barnard College is not able to receive funds from students for safekeeping or to cash personal checks or traveler's checks.

To cover immediate expenses, a student should have traveler's checks, which can be cashed at a local bank, or money orders, which the Columbia University Station of the U.S. Post Office will cash upon presentation of a validated ID card. Validated ID cards are issued after students register at the beginning of each term.

## Financial Aid

Insofar as possible, Barnard assists qualified students who demonstrate financial need. Barnard does not discriminate against applicants for financial aid on the basis of race, color, creed, national origin or handicap.

Financial aid from the College consists of grants, loans, and opportunities for part-time employment. In addition to providing financial aid from its own funds, i.e. gifts, endowment, and general income, Barnard participates in the following Federal programs: the Pell Grant program, the Supplemental Educational Opportunity Grant program, the National Direct Student Loan program, the Federally Guaranteed Student Loan program, the Parents Loan for Undergraduate Students program, and the College Work-Study program. Barnard also participates in the New York State Higher Education Opportunity Program (HEOP) and the Dormitory Authority of the State of



# Financial Information

New York Supplemental Higher Education Loan Financing Program (SHELF). Federal and State funds are administered by the College in accordance with government regulations and the College's general policies relating to financial aid. To supplement the above mentioned financial aid sources, students are urged to investigate state loan and scholarship/tuition assistance programs and college tuition financing plans offered by local banks and insurance companies.

The Office for Disabled Students and the Office of Financial Aid work together on designing financial aid packages which are responsive to the needs of students with a variety of disabilities. Disabled students should obtain a copy of *Financial Aid Opportunities for Barnard Students with Disabilities*.

Any student who thinks she will need financial aid in order to attend Barnard is encouraged to apply for aid. The decision of the Committee on Admissions to admit a student is not affected by the fact that a student has applied for or demonstrated need for financial aid.

A detailed explanation of current College policies and awarding practices may be found in the brochure, *Barnard College Financial Aid Policies and Procedures*, available from the Office of Financial Aid.





## IV. College Life

Barnard students soon discover that their classmates may also be counted among the principal resources of their undergraduate years. Cosmopolitan in nature, the student population includes residents from nearly every state and some twenty-five foreign countries as well as those who live within commuting distance. Diversity is one generalization that can be safely made about Barnard students, and a mingling of economic, regional, ethnic, and cultural groups is evident in campus life.

### STUDENT GOVERNMENT AND ORGANIZATIONS

Since the early seventies the structure of Barnard's student government has undergone fundamental revision, culminating in the development of College Committees on which students, faculty, and administrators serve, and which recommend policy and procedural changes in the areas of curriculum, housing, financial aid, college activities, athletics, and commencement.

All Barnard students are members of the Student Government Association, which elects a representative government and sponsors extracurricular activities and special events reflecting the range of cultural, political, pre-professional, and academic interests of the student body. These groups, which include the Pottery Co-op, Barnard Organization of Black Women, Société Française, Commuter Action Coalition, and Women in Health Careers, for example, are funded by the assessment of a student activities fee. The student newspaper, *Barnard Bulletin*, is published weekly and the *Barnard Literary Magazine* is an annual publication. Students with a variety of talents collaborate to produce Winter and Spring Festivals featuring concerts, theatre and dance performances, art exhibitions, ethnic food, and pottery and plant sales. Theatre-Goers Guild offers students the opportunity to attend professional dance, theatre, and opera in New York at reasonable prices. Students in many academic disciplines supplement course work with department-sponsored programs, lecture series, and performances during the school year.

Cooperation between Barnard and Columbia groups is common. Many activities such as the University's chorus, orchestra, radio station, and community service programs enlist members from both campuses. Religious organizations and activities with headquarters on the Columbia campus in Earl Hall encompass every faith and are open to all students. For more complete information, students should consult *A Guide to Barnard*, the student handbook, and inquire at either the College Activities Office or the Undergraduate Association office in McIntosh Center.

The Recreational Athletics Association sponsors many activities including intramurals, sports week, and special events. The Intercollegiate Athletics program is operated in cooperation with Columbia University as a consortium in NCAA Division I and includes varsity teams in archery, basketball, cross country, fencing, indoor and outdoor track and field, swimming and diving, tennis, and volleyball.



# College Life

Students have excellent facilities available for recreation and intercollegiate team practice and competition. Barnard facilities include a snack bar, lounge, music practice rooms, pottery studio, dark room, and bowling alleys in McIntosh Center; swimming pool, gymnasium, running track, fencing and dance studios in Barnard Hall; and tennis courts just one block away in Riverside Park. Barnard students have access to all recreational and athletic facilities of the University as well. The Dodge Fitness Center, opened in 1974, includes the Levien Gymnasium with a seating capacity of 3400; the eight-lane Uris Swimming Center; 17 squash and handball courts; a well-equipped training room; locker rooms and sauna. Women's intercollegiate and club teams also use outdoor facilities at Baker Field, a 26-acre complex at the northern tip of Manhattan that includes a new 20,000-seat stadium, with an eight-lane, all-weather, NCAA-regulation running track, and practice fields. There are seven composition tennis courts and a modern tennis clubhouse; facilities for crew; and a spacious field house.

About thirty-five miles from New York, Barnard maintains a twenty-acre camp and lodge, Holly House, for both recreational and educational purposes. For additional information and fees, contact the Holly House Secretary, Alumnae Office, 221 Milbank Hall.

## STUDENT CONDUCT

The Honor Code, instituted at Barnard in 1912, governs all aspects of academic life and is enforced by an Honor Board which has a membership of students and faculty members. A more complete explanation of the system may be found in the student handbook, *A Guide to Barnard*. A Judicial Council of undergraduates, faculty, and staff recommends disciplinary action for non-academic offenses.

Each student who registers at Barnard agrees to maintain the Honor Code, which provides that she will not ask for, give, or receive help in examinations or quizzes, or present oral or written work that is not entirely her own. Library regulations and independent study courses are also governed by the code.

Policies and regulations concerning student conduct on the University campus and in the College residence facilities are recommended by student, faculty, and administrative committees to the Vice President for Student Affairs, the President, and the Board of Trustees. Hearing and appeal procedures are also outlined in *A Guide to Barnard*, and all decisions are subject to review and final disposition by the President.

Enrollment in the College, award of academic credit, and conferring of the degree are subject to disciplinary powers vested by the Barnard Board of Trustees in appropriate officers of instruction and administration and in College Committees.

## HOUSING

Barnard strives to maintain as diversified a housing program as possible, providing several options for students. These options include traditional dormitories, suite arrangements, and apartments in College-owned buildings adjacent to the campus. In a cooperative exchange with Columbia College, about 209 spaces are available for those who choose coeducational arrangements. Apartments have also been secured in buildings off-campus which meet the standards for College-operated residences. The college has residence facilities for approximately three-fourths of the student population. In addition, about 15% more of the student body live in independent housing they maintain in the campus vicinity. Beginning in 1982, the College has offered all incoming freshmen the opportunity to elect to live in College-provided housing. Policies regarding eligibility for housing and manner of assignments are formulated by a College Housing and Campus Environment Committee with a membership of students, faculty, and administrators.



# College Life

## Eligibility

Eligibility criteria have been established in order to assign available space on an equitable basis. These regulations may be changed as needed at the discretion of the College, but insofar as possible the following criteria will determine eligibility:

1. A student must be registered for a full academic program. Exceptions may be made upon review of appeals submitted to the Dean of Studies.
2. A student receives “resident” classification and priority if the principal residence of her parent or legal guardian is in the geographic area classified by the College as beyond commuting distance.
3. A “Commuter” is a student whose permanent residence is within the geographic area classified by the College as within commuting distance. Commuters are eligible for College-assigned housing when they enter as freshmen, and thereafter as space is available. Students may consult an off-campus housing registry for help in obtaining accommodations near the College. Some dormitory rooms are reserved for commuters for occasional overnight accommodation. Per diem fees are charged for these rooms.
4. Any student may live off-campus regardless of rank. A permission form signed by the parent or legal guardian must be on file in the Office of Residential Life for any student under 18 years of age who wishes to live off-campus but not at home. Resident students who choose to withdraw from College housing lose their class priority in room selection.
5. A student is responsible for reporting any change in permanent address to the Registrar of the College, and to the Office of Residential Life.

## Request for Resident Status

Discretionary decisions and appeals regarding status may be reviewed by an Appeals Committee, whose decisions are final and binding.

## Assignments

Returning upperclass students are assigned rooms in college residences on the basis of a lottery and room selection. Incoming freshmen, readmitted upperclass students, and transfer students are assigned rooms by the Office of Residential Life.

## Requirements

The rules and regulations regarding housing deposits, payments and refunds, and the use and occupancy of rooms are in the “Terms and Conditions of Student Residence in Barnard College Housing” which is given to students selecting College housing and which must be signed by them before they may accept rooms.

## Housing Facilities

The College provides in its residence halls supervision under the direction of the Office of Residential Life. This includes resident directors, graduate and undergraduate student assistants, twenty-four-hour desk attendant coverage, and regular security guard patrols.

**Brooks, Hewitt, and Reid Halls** or “B-H-R” at the south end of the campus, are operated as a single complex with space for about 515 students. Reid Hall is an all-female building housing first year students who are assigned to double rooms. Brooks and Hewitt are predominantly upperclass dormitories. Some floors in Hewitt are co-educational. There are also eight wheelchair-accessible, modified suites located in Hewitt. All students living in these halls must subscribe to a College meal plan.

“**616**” **West 116th Street**, an apartment-style residence directly across the street from B-H-R, provides housing for 207 students in suites of single and double rooms. Each suite has a kitchen and a bath.

“**600**” and “**620**” **West 116th Street** are College-owned buildings comprised of student apartments of one to five single or double rooms with kitchen and bath, and apartments for community residents.

**49 Claremont Avenue**, a newly renovated building adjacent to the west side of campus, houses 131 students. Rooms are on common corridors in suites with shared baths, kitchenettes and lounges.



# College Life

**Plimpton Hall**, an apartment-style dormitory on Amsterdam Avenue and West 121st Street, a short walk from the main campus, provides housing for 280 students in suites of five single rooms. Each suite has a kitchen and bath. Approximately 115 Columbia students reside there in suites.

**College Residence Hotel** at 601 West 110th Street has about 32 apartments leased by the College which house 94 upperclass students. This offers students the option to live off-campus, only six blocks down Broadway, in a building with College-provided supervision. The College may lease additional off-campus spaces as they are required and become available.

**Hotel Lucerne** at 79th Street and Amsterdam Avenue has about 180 upperclass students living in singles and 2-4 person suites. There is 24-hour desk security coverage. A daily scheduled bus offers transportation to and from the campus. Full-time staff is in residence.

## Board

The College offers all students meal plans in Hewitt cafeteria and McIntosh Snack Bar. All freshmen and residents of BHR are required to be on a meal plan for the full academic year.

## Married Students

Students who plan to marry during the academic year and continue in college are asked to notify the Dean of Studies. Married students, as a rule, will not be allowed to remain in the College residences. They will be subject to the financial obligations which pertain to any student who withdraws from the residence halls or from the College during the term.

## Financial Aid for Room and Board

A resident student may use the Room and Board portion of her financial aid award for college housing, or if she prefers, toward her own non-Barnard housing. No resident student ever receives more financial aid for Room and Board than the amount required to cover the cost of living and eating in College residences. Commuter students do not receive financial aid for Room and Board

## THE WOMEN'S CENTER

The Women's Center was founded in 1971 in acknowledgment of the profound changes in women's lives and expectations and as a further expression of Barnard's traditional commitment to women. Today it is nationally recognized as a model for women's centers because it links all parts of the College community and extends its resources to women beyond the campus gates. Through a wide range of programs and services, the Center provides a physical and psychological meeting space for women, as well as a forum to discuss feminist concerns, both academic and non-academic. The Center maintains an expanding resource collection of over 9,000 books, articles, special issues of journals, and bibliographies, in addition to subscriptions to over ninety newsletters and periodicals on women's issues. It also serves as a clearinghouse of current information on women's studies programs, research on women, women's professional and activist groups, and special events for women.

An annual academic conference, *The Scholar and the Feminist*, has continued inquiry into the impact of feminism on traditional scholarship. In recognition of its catalytic effect on the development of new feminist scholarship, papers and workshop presentations from *The Scholar and the Feminist* have been published from time to time.

The Women's Center also sponsors and co-sponsors a number of other programs. The Reid Lectureship brings to Barnard distinguished women in public life and the arts who have shown a commitment to other women. A regular series of monthly luncheon meetings focuses on significant women's issues with guest speakers and discussion. A Women's History Seminar and a series of topical issues known as Conversations about Women, which attract students, faculty, and alumnae, and a close relationship with the Women's Studies Program all reflect the Center's integrated and connecting role at the College.

The Center is governed by a twelve-member Executive Committee composed of equal representation from students, faculty, administrators, and alumnae. Located in 100 Barnard Hall, the Women's Center is open throughout the year.



# V. The Library

## **Wollman Library and Other Library Resources**

The main collection of more than 155,000 volumes, arranged on open shelves, contains books and microforms selected to cover curricular requirements and provide opportunities for independent work in many fields. A large collection of musical and spoken records, a wide selection of periodicals and journals, and a growing collection of instructional videotapes supplement the book collection. There are ample facilities for the use of records and videotapes, and the reading areas contain individual study carrels.

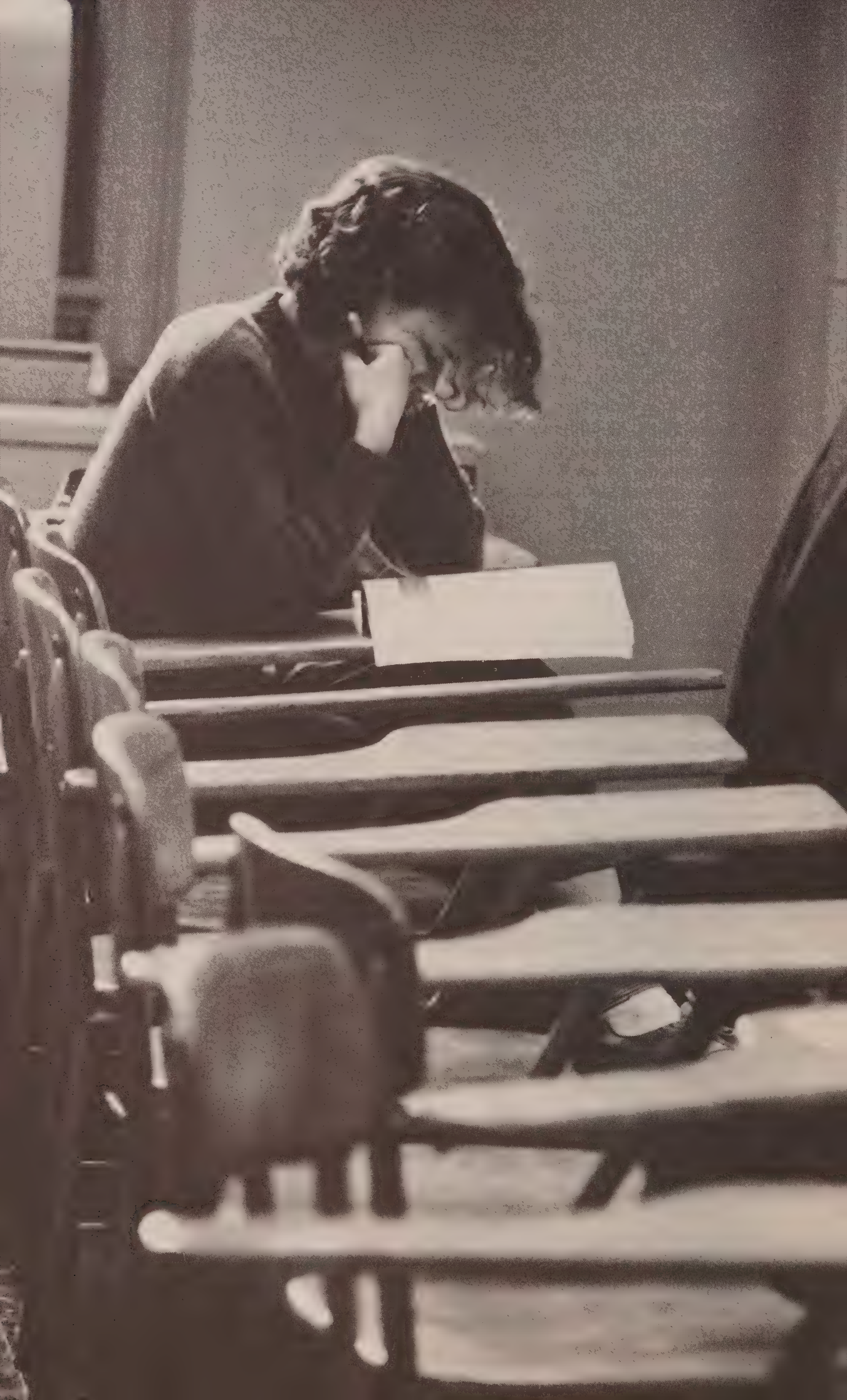
Special collections in the library include the Barnard Archives, a historical collection of official and student publications, documents, letters, and photographs from Barnard's founding in 1889 to the present; the Alumnae Collection of works by former Barnard students; the personal library of the Nobel Prize-winning Chilean poet Gabriela Mistral; the Overbury Collection of 3,300 books and manuscripts by and about American women authors; and a small rare book collection. The library has an especially strong collection in women's studies, supplemented by the Women's Center resource collection. A separate Chemistry Library is located in Altschul Hall.

When the College is in session the main library is open seven days a week. The Reference Department offers an instruction program to help each student develop efficient library skills and bibliographic control over her own area of study. The Media Services Department provides additional support for the instructional program and organizes the annual film and video festival, "Works by Women."

Barnard students also have access to Columbia University's libraries with over 5.2 million books, 2.7 million microforms, and over 60,000 serial and periodical listings and to the libraries of Teachers College and Union Theological Seminary. In addition to these campus libraries, students may use the many libraries and collections in the metropolitan area, some open to the public and others accessible by special arrangement.

An Apollo Laser Reading Machine is available for use by visually impaired students and others who need print magnification. Barnard's students may also use the Kurzweil Reader available through the Columbia University Library.







# VI. Advising and Student Services

## ACADEMIC ADVISING

Requirements for the degree are specified on page 33. Individual questions should be directed to the Dean of Studies, who oversees academic advising, or to the appropriate adviser listed below.

### **Class Deans and Advisers, 105 Milbank, 280-2024**

After being notified of acceptance to the College, each entering freshman will receive a program form and the Freshman Program Guide from the Director of Freshman Programs. The student selects courses for the autumn term and returns the completed program form to the Director who, insofar as possible, schedules classes accordingly. Class schedules and registration materials are distributed when students arrive on campus in September.

The Freshman Class Dean assists the Dean of Studies in coordinating the academic advising of freshmen, directs the planning for freshman orientation with the help of a committee of upperclass students, and oversees other special programs for freshmen.

Assistance in planning courses of study is given to freshmen and sophomores by the class advisers. Group meetings with class advisers are scheduled during freshman orientation and program-filing periods. For individual advising, students may schedule appointments in 105 Milbank and departmental offices. Group meetings with departmental chairmen and other professors are arranged periodically to facilitate the selection of majors.

In the second semester of her sophomore year, each student chooses her major field in consultation with the Sophomore Class Dean, her class adviser, the academic department and the Director of Career Services. During her junior and senior years, her major adviser guides advanced study for the undergraduate degree and is the principal source of information on preparation for graduate school. Also available to her for general academic guidance are the Junior and Senior Class Deans.

While it is the student's responsibility to fulfill all degree requirements, the Senior Class Dean reviews each senior record and advises on graduation status. A senior handbook, sent to campus mailboxes at the beginning of the autumn term, describes College policy on honors, application procedures for graduate or professional study, and deadlines for major examinations, GRE, LSAT, MCT, and fellowship applications. The Senior Class Dean directs the planning for commencement with the help of class officers and the Commencement Committee.

### **Transfer Advisers, 104 and 105 Milbank, 280-2024**

Individual appointments with the transfer advisers may be arranged in the Office of the Dean of Studies.

### **Other College Degree Candidates, 104 Milbank, 280-2024**

Students who enroll for classes at Barnard but who will graduate from another college must have approval from the degree-granting school for course work to be completed at Barnard. Program-filing and registration are guided by the Assistant Dean for Transfer Services.

# Advising and Student Services

## **Foreign Student Adviser, 105 Milbank, 280-2024**

Advice on situations arising from foreign student status is available in the Office of the Dean of Studies.

## **Study Abroad, 104 Milbank, 280-2024**

Students who wish to study abroad for credit toward the Barnard degree are urged to secure approval from the Assistant Dean for Transfer Services before leaving the country. Information and forms are available at 105 Milbank.

## **Pre-Professional Advising, 105 Milbank, 280-2024**

Students who are interested in post-baccalaureate professional training may consult the Dean for Pre-Professional Students for help with programming, selection of schools, and submission of application materials. A student who plans to enter one of the health professions should seek advice in her first or second college year in order to discuss requirements and obtain a handbook. Consultation with the pre-professional advisers in the junior year is recommended for any student interested in law, social work, architecture, journalism, or business. The pre-professional secretary maintains recommendation files and forwards materials required for applications. (See pages 39-40.)

## **Graduate School Advising, 105 Milbank, 280-2024, and departmental offices**

Students interested in advanced study in the liberal arts and sciences or the performing arts may consult appropriate faculty members and the Senior Class Dean. A student who plans to apply to graduate school should, in her senior year, establish a file with the secretary for graduate school recommendations in the Office of the Dean of Studies.

## **Higher Education Opportunity Program, 5 Milbank, 280-3583**

The Higher Education Opportunity Program, a support service to meet the needs of New York State undergraduate women from backgrounds that are disadvantaged economically and academically, provides counseling, tutoring, and financial assistance. In a six-week summer program, all incoming HEOP students receive instruction in English, math, research, and public speaking skills. During the academic year, tutoring, workshops, and study groups are available in addition to academic and personal counseling.

## **Resumed Education Program, 105 Milbank, 280-2024**

For advice on academic study and College services for students returning to Barnard after absences of five years or more to complete the A.B., or for graduates redirecting their careers and exploring new interests, the Director of the Resumed Education Program in the Office of the Dean of Studies may be consulted.

## **STUDENT SERVICES**

### **Career Services, 11 Milbank, 280-2033**

The Office of Career Services helps students and alumnae define and implement career plans. To provide this service, the Director and career advisers have designed projects enabling them to explore careers, to keep informed about current labor market trends, and to earn money to finance their education. All placements for the Federal College Work Study Program are made through this office. In addition, individual counseling on careers and related concerns is available.

A newsletter published by the staff informs students about career programs and group counseling sessions. To aid students and alumnae in exploring career areas, the Office maintains CONTACT, a file listing over 1,400 alumnae who are available to discuss their fields; a library of vocational materials; and a collection of graduate school catalogues. Workshops on specific concerns, such as resume writing and job interviews, are conducted when the College is in session.

To enable students to clarify vocational interests, the Office sponsors internships in many professional fields and occupations for a semester, the summer, or the January intersession. Interns gain work experience of a more professional level than students ordinarily can, and a few students also arrange academic credit for internships through the Experimental Studies Program.



# Advising and Student Services

The Office, which is open twelve months a year, has contacts with many academic institutions, museums, business firms, hospitals, government agencies, libraries, and a large number of other potential employers who post full-time jobs regularly with Career Services. *The Job Seekers Newsletter* announcing these full-time job opportunities is issued every two weeks and is mailed to alumnae who request it. Corporate employers interview seniors on campus in the spring semester Recruitment Program for major training program opportunities. Students use part-time and temporary job listings for both on- and off-campus jobs. The Barnard Babysitting Service and the Barnard Bartending Service, student-run services supervised by the Office, receive thousands of requests annually and provide work for many students. Students and alumnae may establish permanent recommendation files at the Office of Career Services for future employment.

## **Program for Disabled Students, 7 Milbank, 280-4634, Voice/TDD**

In 1978, Barnard established a program to provide disabled women with services which enhance their educational, pre-professional, and personal development. The Office for Disabled Students serves students with a broad range of disabilities, including visual impairments, mobility impairments, and hearing impairments as well as students with hidden disabilities, chronic medical conditions, and learning disabilities. The Dean for Disabled Students and her staff work with other administrators and members of the faculty to assist disabled students in participating in college activities, securing financial aid, scheduling classes and examinations, and planning careers. Mobility aides, readers, tutors, and note-takers are available on request. The 504 Access Committee works to reduce architectural and other barriers at the College.

The buildings on the Barnard campus interconnect. Classroom and other facilities are accessible to disabled students. Maps of the campus showing special features and access routes are available in the Office for Disabled Students.

## **Financial Aid, 14 Milbank, 280-2154**

Students who have questions or problems regarding financial aid are encouraged to make appointments with counselors in the Office of Financial Aid. Advice is available on applying for financial aid, budgeting, and computation of financial aid awards. For more detailed information, students should consult page 21.

## **Health and Counseling Services, Brooks Basement, 280-2091**

The Student Health Service, recently relocated in a modernized complex of offices, Brooks Hall, Lower Level, provides diagnosis and treatment of all major and minor health problems and preventative health care in relevant areas. The staff is composed of a Director (an internist), an Associate Director, consultants in Adolescent Medicine, Gynecology, and Dermatology, three psychiatrists, two additional psychotherapists, three nurses, and an administrative staff.

The medical questionnaire and the physician's report, required of every student as prerequisite to enrollment, are filed with the Health Service. Complete examinations are performed for seniors in the Autumn term and sophomores in the Spring term. They are not mandatory, but are recommended and are required if health certificates are needed.

All students regardless of residence must immediately report any illness, however minor, to the Student Health Service. If a resident student wishes to have someone other than the Health Service physicians care for her, her parents should send the name and address of the doctor to the Director before registration.

Campus medical service is available to all Barnard students and is covered by the Student Health Service fee. This service is not available during College vacations. Students are entitled to the following services:

- 1) an unlimited number of visits to the staff physicians;
- 2) an unlimited number of visits to the gynecologists and dermatologist;
- 3) use of the Counseling Service;
- 4) weekend and night-time coverage.

# Advising and Student Services

All Barnard Students who have paid the Student Health Service Fee are covered for the Basic Accident and Sickness Plan benefits of the Barnard Student Insurance Plan. The insurance plan provides benefits toward the cost of the following services when ordered by a Barnard staff physician:

- 1) hospitalization for illness or accident;
- 2) laboratory tests and x-rays;
- 3) consultations.

The following services are not covered:

- 1) home visits;
- 2) consultations when the College is not in session;
- 3) dental care (except for treatment of injury to sound natural teeth)
- 4) filling of prescriptions by outside physicians.

For additional information, students are encouraged to consult *Barnard Health Service*, a *Student Guide* and the brochure describing the Barnard Student Insurance Plan, which are available at the Student Health Service.

## **Resident Assistants**

As part of the student support network, upperclass students in each residence facility are designated as Resident Assistants to answer questions on campus life for resident students, to provide liaison with other services, and to aid in residential programming.

## **Commuter Affairs, 208 McIntosh Center, 280-3040**

The Office of Commuter Affairs is a resource and referral center designed to enhance the experience of commuter students at Barnard College. It is a place where commuters can meet other commuters as well as receive information about off-campus housing, transportation, carpooling, parking, and temporary on-campus accommodations. The Commuter Assistant staff is available to help with concerns related to commuting, academic procedures, or with issues of a vocational or personal nature. The office also coordinates the Urban New York Program and initiates educational, cultural, and social programs designed to enrich commuter life.

## **Women's Counseling Project, Reid Hall, 280-3063**

Affiliated with the Barnard Women's Center, the Women's Counseling Project is a free, confidential referral service specializing in the areas of health care, therapy, sexuality, and the law.

## **Recommendations**

Students may establish recommendation files for employment in the Office of Career Services, for graduate study with the recommendations secretary in the Office of the Dean of Studies, for professional schools with the pre-professional secretary in the Office of the Dean of Studies. For procedures and policy, the appropriate office should be consulted.

## **Student Records and Information**

The Family Educational Rights and Privacy Act of 1974 (the Buckley Amendment) stipulates that students may have access to their official files and that no transcripts may be issued without their written request. A further explanation may be found in *A Guide to Barnard College*.

Also in accordance with the Buckley Amendment, Barnard has the right to make public, at its discretion and without prior authorization from the student, the following information: name; class; home or college address and telephone number; major field; date and place of birth; dates of attendance at Barnard; degrees; honors and awards received; and previous school most recently attended. The law also gives students the right to place limitations on the release of this information. A student who wishes to do so must file a special form with the Registrar, 107 Milbank, each year by September 15. In practice, the College does not indiscriminately release information about individual students.



# VII. The Curriculum

## **Requirements for the A. B. Degree**

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts, the only degree awarded to Barnard students. The degree requires the satisfactory completion of 120 points of academic work and two terms of physical education. As parts of the 120-point requirement, all students must complete a major and must fulfill the applicable general education requirements. Beginning in 1984, the general education requirements changed; both the “old” and “new” requirements are listed below.

## **Major Requirements**

All students must complete the requirements of an approved major. The number of required semester-courses for the major depends on the major chosen (see individual department and program curriculum statements).

The student registers her chosen major with the Office of the Registrar and with her major department or program, normally in the second term of her sophomore year. The major may be chosen from any listed in the Barnard Catalogue. A student may major in two fields by satisfying all the major requirements prescribed by each department, with no overlapping courses. If either of the fields qualifies for the distribution requirement, two of the courses in one field may count toward that requirement. A combined or special major may be designed in consultation with the chairmen of the appropriate departments and with the approval of the Committee on Programs and Academic Standing. Committee approval is not needed for the combined major that comprises all the course requirements of two majors and **one** integrating senior project.

## **General Education Requirements for Students**

### **Entering in the Fall of 1984 and Thereafter**

The Barnard College faculty has adopted a revised set of general education requirements which will apply to all students who begin their studies in the fall of 1984 and thereafter. The program is designed to provide direction and continuity while giving students opportunities to shape their own programs of study. Barnard offers a rigorous but flexibly structured set of requirements which afford students a range of choice in almost every instance. The requirements are as follows:

### **FRESHMAN SEMINAR**

Freshmen are required to take this one-semester course, which provides special opportunities to develop some of the intellectual skills and styles which will be central to subsequent academic work. The enhancement of strong writing and communication skills is emphasized, as is the group-discussion mode of intellectual inquiry and discourse. Seminars adopt major themes or issues, and participants read and discuss leading philosophical, historical, literary, or scientific statements of them. A full list of Freshman Seminars, with descriptive information and the names of instructors, appears on page 148. Transfers are not required to take the Freshman Seminar.

### **FRESHMAN ENGLISH**

Freshmen must take this one-semester writing course designed to cultivate and develop prose writing and related tools of scholarship. Reading and writing assignments focus on major works of literature. Some students may gain exemption from the course on the basis of a writing proficiency examination or with an Advanced Placement test score of 4 or 5. Foreign students are required to exhibit a degree of fluency before enrolling in this course. Transfers are not required to take Freshman English.

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## FOREIGN LANGUAGE

Students must achieve basic competence in one ancient or modern foreign language. The requirement is fulfilled by completion of the fourth sequential semester (or a more advanced course for which the fourth semester is prerequisite) of a course of three or more weekly hours in any foreign language. (In Latin, both Latin BC2003 and BC2004 or their equivalents must be completed.) Courses narrowly focused on conversation or composition or reading do not qualify. The faculty recommends that (i) the third and fourth semesters be completed at Barnard; (ii) that elementary courses be completed in the freshman year; (iii) that courses be taken consecutively without interruption; and (iv) that proficiency be established by the end of the junior year. Re-enrollment without credit is required, whenever feasible, for students whose work in levels 1, 2, or 3 is graded below C. Most students satisfy the requirement in French, Spanish, Hebrew, German, Russian, Italian, Chinese, Latin, or Greek, but other languages taught in the University are also available. The student who wishes to study a language not offered by any division of the University should consult the chairman of the Barnard Language and Literature Committee.

**Exemption** from the requirement may be obtained in the following ways:

- 1. CEEB Achievement score of 750 or higher;
- 2. Chairman's decision on AP score of 4 or 5;
- 3. Departmental examination.

**Placement** is determined in the following ways:

- 1. CEEB Achievement score of   650-749           level 4  
  550-649           level 3  
  400-549           level 2  
   below 400       level 1
- 2. On the basis of previous college work for transfer students, in the level following that of the last satisfactorily completed semester course. Formal withdrawal and re-enrollment without credit may be required for students who are judged by the department to be unsuitably placed and in need of additional preparation or review.
- 3. By departmental examination if there is no CEEB score or previous college transfer work.

**Credit** is determined on the following basis:

- 1. For courses satisfactorily completed in residence at Barnard or, in the case of a transfer, at her previous college.
- 2. No prior assurance of degree credit is given for summer or transfer work undertaken as Barnard matriculant; on completion of other-college course, credit is granted with departmental approval, or by examination, or on completion of next level at Barnard.
- 3. No duplicate credit is granted for work repeated at the same level.
- 4. No credit for the first semester of an elementary language is granted unless a more advanced course is completed.

Exception to the general guidelines outlined above is made if the high school language of instruction was not English. Fulfillment in English is granted for foreign students who complete English BC1201 or one satisfactory year at Barnard. Fulfillment is granted in the high school language of instruction for students whose native language is English (e.g., French for alumnae of the Lycée Français).

In addition, fulfillment is granted for the following special situations: A sequence which includes Italian V1301, V1302,



# The Curriculum

year of literature will qualify. Completion of Spanish BC3006 will be sufficient for students of Hispanic background. Because of curricular differences, students who as Barnard matriculants complete the third or fourth semester of French or German outside the Barnard departments are required to take a departmental examination for placement or fulfillment.

Students must complete one science course (two semesters), with laboratory. Acceptable courses must meet for at least three hours of lecture and three hours of laboratory per week. The student must pass both the lecture and the laboratory portion of the course, and the College strongly suggests that the two be taken concurrently. The following courses meet these requirements:

Astronomy	C1103-C1104
Biology	Barnard BC1101-BC1102
Chemistry	Barnard BC1601-BC1602 or BC1601-BC3328 C1403-C1404 with C1503-C1504 or with C1503-C1507 C1407 with C1503 or with C1507 and Barnard BC3328
Environmental Science	Barnard BC1001, BC1002
Geography	W1005-W1006 C1001-C1002
Geology	V1011-V1012 V1021-V1022
Physics	C1021-C1022 F1003-F1004 V1003-V1004 F1006, F1007, C1011, C1012 C1406 with W1906, C1407 or C1607 with W1907 V1103-V1104 V1305-V1306 W1003-W1004
Psychology	Barnard BC1105, BC1108, BC1117, BC1127, BC1130, BC1136, BC3256 (any two)

Students wishing to substitute a course-sequence not given above, transfer students, and those with Advanced Placement should consult with department chairmen for guidance with respect to fulfilling this requirement.

All students must take a placement test given at the Academic Computing Center during their first week of matriculation. All students must then take one course in which the major topics are mathematics, methods of empirical analysis using quantitative data, or the use of symbolic manipulation to solve problems. The requirement may be fulfilled by taking and passing any of the following courses:

Chemistry	BC1601: General Chemistry 1 C1403, C1404; General Chemistry
Computer Science	W1003: Introduction to Computer Programming B W1005: Introduction to Computer Programming C All other Computer Science department courses carrying degree credit <b>except</b> W1001: Introduction to Computer Programming A

## LABORATORY SCIENCE

## QUANTITATIVE REASONING

# The Curriculum

Economics	V1411: Introductory Probability and Statistics for Economics
Environmental Science	W3071, W3072: Quantitative Techniques in Geography
History	BC3455: History, Historians, and the Computer
Mathematics	V0077: Pre-calculus (Counts toward Quantitative Reasoning requirement. No degree credit.) V1007: Applied Linear Algebra V1100: Brief Calculus V1101: Calculus, 1A All other Mathematics courses carrying degree credit
Philosophy	V3411: Formal Logic A V3415: Formal Logic B
Physics	All courses except BC1001, BC1002: Elementary Physics
Political Science	BC3345: Introduction to Statistical Analysis of Politics and Policy
Psychology	BC1609: Statistics W1920: Statistics for Behavioral Scientists
Quantitative Reasoning	BC1101: Description, Development, and Decision BC1102: Size, Symmetry, and Sequence BC1103: Music and Mathematics BC1104: Mathematical Modeling in Psychology and the Social Sciences BC1105: Size, Shape, and Symmetry
Sociology	V3212: Methods of Social Research
Statistics	V1111: Introduction to Statistics All other Statistics Department courses

Note: A student may fulfill the course requirement if she receives AP credit for a course equivalent to one of the above. Such students must still take the placement test.

## DISTRIBUTION

Students must complete four semester-courses outside the major department, two each in the Humanities and in the Social Sciences. One interdisciplinary course may be used to satisfy the requirement in each of the two areas.

The distribution requirement in the Humanities may be fulfilled by taking courses in Art History, Philosophy, Oriental Humanities, Studies in the Humanities, Medieval and Renaissance Studies; or by taking courses in any literature, the history or literature of music, the history of dance; Humanities C1001 or C1002; or designated courses in Religion or Women's Studies.

The distribution requirement in the Social Sciences may be fulfilled by taking courses in History, Oriental Civilization, American Studies, Anthropology, Economics, Health and Society, Political Science, Sociology, European Studies BC3352; or designated courses in Religion or Women's Studies; or Contemporary Civilization C1101 or C1102.

The qualifying courses that are listed in this catalogue bear the letter H (for Humanities) or S (for Social Sciences) on the last line of the course description. The chairman of the appropriate Barnard department will determine the eligibility of all other courses.

## General Education Requirements for Students Who Entered before Autumn 1984

For students who began their studies before the autumn term of 1984, the following general education requirements apply:



# The Curriculum

<b>FRESHMAN ENGLISH</b>	The requirement is identical to the Freshman English requirement listed above, page 33.
<b>FOREIGN LANGUAGE</b>	The requirement is identical to the Foreign Language requirement listed above, page 34.
<b>LABORATORY SCIENCE</b>	The requirement is identical to the Laboratory Science requirement listed above, page 35.
<b>DISTRIBUTION</b>	All students must complete six semester-courses of three or more points outside the major department, to be distributed among three or more of the categories listed below (i.e., no more than two semester-courses in any single category).
<b>The qualifying courses that are listed in this catalogue bear the Roman numeral of the relevant category on the last line of the course description. The chairman of the appropriate Barnard department will determine the eligibility of all other courses.</b>	
<b>I. FINE ARTS</b>	Art History; history or literature of Music; Dance BC2565, BC2566; English BC3129, BC3130.
<b>II. LITERATURE</b>	Any literature written in the original language (i.e. not literature in translation).
<b>III. OTHER HUMANITIES</b>	Philosophy; Religion (other than history of religion courses); Oriental Humanities; Readings in the Humanities; Medieval and Renaissance Studies; Humanities C1001-C1002; Classical Literature BC1032, V3123.
<b>IV. HISTORY</b>	History; Oriental Civilization; history of religion courses; American Studies; European Studies BC3352.
<b>V. OTHER SOCIAL SCIENCES</b>	Anthropology; Economics; Geography (see listings under Environmental Science); Health and Society; Linguistics; Political Science; Sociology; Women's Studies BC 3111.
<b>VI. MATHEMATICS</b>	Mathematics; Computer Science W3203, W3261, W4203, W4241, W4242, G4801.

## Electives

Apart from fulfilling general education requirements and major requirements, the student completes the remainder of the 120-point requirement with elective courses, either within or outside the major department, subject to the approval of the appropriate adviser. No more than 18 points of studio, performing arts, or professional school courses (including film) may be credited toward the A.B. degree. (Of these, a maximum of four arts studio courses may be credited, and a student who takes more than two is required to validate each additional studio course with a course in art history.) Exceptions to this rule are allowed only for courses in the major field or for courses taken in fulfillment of requirements for double and joint degree programs with the professional schools of the University.

## Physical Education Requirement

Students admitted as freshmen must complete two semesters of Physical Education at Barnard. One semester must be passed in the freshman year and the requirement must be completed by the end of the sophomore year. Sophomore and junior transfers are required to complete one semester of Physical Education at Barnard. Transfers are expected to complete their requirement by the end of the junior year. Failure to complete the requirement by the specified deadlines will result in a failing grade. The Physical Education requirement is in addition to the 120 academic-point requirement and is graded on a pass-fail basis.

## Length of Residence

Students are expected to be registered full-time for four years. Transfer students must complete at least 60 points and two years in residence at Barnard to receive the degree (see below for additional information). Under certain conditions, it is possible for a senior to complete her work for the degree while registered **in absentia**, with the permission of the Committee on Programs and Academic Standing.

# The Curriculum

## Requirements for Transfer Students

To receive the A.B. degree at Barnard, a transfer student must attend Barnard for at least four regular academic terms during which she must complete at least six courses in the major field (and three in the minor field, if a minor is elected). Additional major (and minor) courses, as well as general education requirements, may be satisfied by transfer courses. Exemption from the foreign language requirement may be attained on the basis of College Entrance Examination Board Achievement scores alone or by a combination of those scores and additional college work. Those who do not receive exemption must complete the normal language requirement (see page 34). Transfer students are eligible for general honors when both overall and Barnard averages meet the required academic standards.

## Transfer Credit

Courses completed at other accredited colleges and universities may be submitted for transfer credit. Transfer courses are evaluated after a complete transcript is received in the Office of the Registrar. Students are asked to submit catalogues and course descriptions with their requests for transfer credit to the Assistant Dean for Transfer Services who notifies them of the evaluation by mail.

Credit for approved work at another institution is applied to Barnard's 120-point graduation requirement in proportion to progress toward the degree at the previous institution with a maximum of 16 points per term. Credit cannot be granted for courses with grades lower than C minus. Acceptable transfer work does not usually include applied or professional courses or more than the equivalent of two Barnard studio courses. The first term of an elementary language course is not credited unless or until the second term or a more advanced course has been satisfactorily completed. Summer work is not included in initial credit estimates. Transfer students may apply for credit for previous summer courses under the regulations governing Summer Study (see page 40).

Freshmen with a record of prior college work may request up to one semester of transfer credit provided that the courses were not applied to the high school diploma.

## Classification of Students

Students are classified as follows:

<b>MATRICULATED</b>	<b>Points completed</b>
FRESHMAN	fewer than 24
SOPHOMORE	24-51
JUNIOR	52-85
SENIOR	86 or more
UNCLASSIFIED	transfer students who have not yet been assigned credit
<b>NONMATRICULATED:</b>	
Other college degree candidates	
Barnard alumnae auditing courses	
Barnard alumnae taking courses for credit	
Any other student who is not a degree candidate	

A degree candidate (i.e., student who is matriculated) may not change her status to non-matriculated.

## Filing of Diploma Name Cards

The Diploma Name Card, available at the Office of the Registrar, is the student's official notification to the Registrar that she expects to have completed all requirements for the degree and to receive the diploma on a particular graduation date. Degrees are granted in May, October, and January. The filing of the card sets in motion the processing of the student's academic records in preparation for graduation. It is the student's responsibility to file the Diploma Name Card before published deadlines (see College Calendar, page 6). Graduation ceremonies are held in January and May.



# VIII. Other Academic Opportunities

## Minor

The selection of a minor field of study is optional, requires at least five courses which total a minimum of 15 points, and may be designated by any student having a major after completing a minimum of three courses in the minor field. Requirements depend on the minor chosen (see individual department curriculum statements); courses are selected in consultation with the department chairman. Two of the courses taken for the minor may be used to fulfill the distribution requirement if the field selected qualifies for the requirement (see page 36).

## Senior Scholar Program

The Barnard Senior Scholar Program allows a qualified student to undertake a single project for the entire senior year, or for one semester of the senior year (normally the second). The Program is intended for the student who is unusually well prepared in an academic discipline or in one of the performing arts. It offers the special advantages of concentration on one project, designation as “Senior Scholar” on the permanent transcript, and the amendment of some major requirements. Senior Scholars are allowed credit for no more than 30 points. In the past, Barnard Senior Scholars have gained approval for a wide range of proposals, including writing projects, government internships, and art projects.

A qualified student interested in the Senior Scholar Program should consult the Senior Class Dean, who is coordinator of the program, in her junior year. Before the beginning of the senior year, the student should have completed all but the major requirements for the A.B. degree. The student’s written application for the Senior Scholar Program is submitted to the Committee on Honors by the coordinator and is subject to the approval of the Committee. The deadline for application appears in the College Calendar (see page 6).

For financial assistance in carrying out the project, the student may apply separately for a student research grant.

## Program Planning for Students Interested in Medicine or Dentistry

The basic premedical and pre-dental requirements are one year of biology with laboratory (Biology BC1101 and BC1102); one year of inorganic chemistry with laboratory (Chemistry BC1601 and BC3232); one year of organic chemistry with laboratory (Chemistry BC3230, BC3231, and BC3328); one year of physics with laboratory (Physics V1003-V1004 or Physics V1103-V1104); and two semesters of English. Highly recommended courses, required by some schools, are two terms of calculus or other college-level mathematics and one additional inorganic laboratory (Chemistry BC3338 or Chemistry BC3340).

Students should become familiar with the most recent edition of *Medical School Admissions Requirements*, an annual publication of the Association of American Medical Colleges, and Barnard’s own *Handbook for Students Entering the Health Professions*, copies of which are available in 105 Milbank. The latter deals with many of the health professions (Optometry, Podiatry, Physical Therapy, and Public Health) as well as Medicine and Dentistry.

Pursuing a major in the sciences is not necessary for premedical students provided they include the aforementioned required courses in their programs. The science requirements should be completed in the year prior to the year of desired entry (i.e., in most instances the junior year) at which time students are advised to take the Medical

# Other Academic Opportunities

College Admissions Test normally offered in April. The test is repeated in the early fall for those who wish to retake it or who, for compelling reasons, were unable to take it in the spring.

All students who are interested in the health professions should consult their class advisers as early as possible and should start a file with the Pre-Professional Secretary and consult with the Pre-Professional Dean in the Dean of Studies Office by the junior year at the latest. Applications for the standardized tests, school catalogues, and other relevant materials are available in 105 Milbank.

## Program Planning for Pre-Law Students

There are no specific course requirements for entry to law school, nor is there any specifically recommended major. Admission to law school is based largely on grade point average and Law School Admission Test scores although other factors are taken into account. Students are encouraged to develop strong skills in writing and in speaking with precision, and to take programs that require demanding critical analysis and effective study habits. Information about law schools and what makes a good lawyer can be found in the *Pre-Law Handbook*, an annual publication of the Association of American Law Schools. Copies may be used in the Dean of Studies Office, 105 Milbank, which also collects law school catalogues and other relevant information.

Pre-Law students are encouraged to make themselves known to the Pre-Professional advisers in the junior year or earlier. The LSAT should be taken in June or October of *the year prior* to expected entry to law school; of these, the June test is recommended because it allows for better planning. Applications for the LSAT and for the Law School Data Assembly Service (a required transcript analysis procedure) arrive in April each year and can be picked up in 105 Milbank any time thereafter.

## Program Planning for Students Interested in Journalism, Architecture, Social Work and Business

Curricular planning should be made with an eye to some of the specific requirements in each of these fields. Familiarity with professional school catalogues in these areas is recommended. Information and printed literature is available in the Office of the Dean of Studies, 105 Milbank, and in the Office of Career Services, 11 Milbank.

## Credit for Summer Study

Students are expected to complete the work for the degree in eight academic terms. Because Barnard does not offer courses during the summer, the granting of course credit for summer courses taken at other accredited institutions is treated as transfer credit, with some additional regulations. The maximum number of points that can be credited toward the degree for **course credit** is 16, subject to the approval of the Committee on Programs and Academic Standing. Although a student cannot receive degree credit for summer courses exceeding a maximum of 16 points, she can fulfill degree requirements with additional summer courses, subject to the approval of the Committee on Programs and Academic Standing, and in some cases, subject to satisfactory performance on a Barnard Placement Examination. The full regulations on credit for summer study are available at the Office of the Registrar and are listed on the Application for Approval of Summer Session Courses. The student may find out in advance whether the courses she wishes to take in summer school meet the approval of the Committee on Programs and Academic Standing by completing the form and submitting it to the Office of the Registrar well before the end of the Spring term. The application may also be retroactive. The student is advised to consult the application for the full regulations, some of which are listed below:

1. No more than two one-semester courses may be counted for one summer session.
2. To be eligible for credit, courses normally must be of at least six weeks' duration.
3. **Grades** for courses taken in summer school must be letter grades in the A to C range; they are **not included in the cumulative grade point average**. These courses and grades will, however, be considered for admission to graduate or professional schools. These schools normally require the submission of an applicant's transcripts from all the American and Canadian colleges she attended.



# Other Academic Opportunities

## Study Abroad

Several options for study abroad are available to Barnard students.

Barnard offers opportunities for study in Great Britain to junior-year students to spend the third year of undergraduate study at Oxford (Somerville College), Cambridge (Newnham College), or the University of London (University College or London School of Economics). Admission to these colleges is competitive. Those interested should consult with the Dean of Studies no later than October of the sophomore year.

Under the auspices of **Reid Hall in Paris**, several semester-long and full-year Barnard-Columbia programs are offered. Semester-long Institutes include intermediate and advanced courses in French language, literature, and civilization; fine arts and architecture; sociology and ethnography of French society and culture; and Women's Studies. The year-long program combines classes in the French university system with research directed by a scholar in the student's chosen field. The majority of applicants to Reid Hall are not French majors, but a strong background in French is required for year-long programs. Further information may be obtained from Reid Hall Programs, 419 Lewisohn Hall, 280-2559. To receive degree credit for courses taken at Reid Hall, the approval of the Committee on Programs and Academic Standing is required on a special form available at the Office of the Registrar, 107 Milbank.

Barnard participates in the program of the Intercollegiate **Center for Classical Studies in Rome**. Students who have completed at least four semesters of Latin above the elementary course, and at least one semester of elementary Greek, are eligible to apply for admission to the program of the Rome Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center may be counted toward the major and, in some cases, toward the fulfillment of the distribution requirements.

Barnard also offers the opportunity to study at the **University of Rome**. Those who are interested should consult with the Assistant Dean for Transfer Services no later than October of the sophomore year.

Barnard College is a Supporting Institution of the **American School of Classical Studies at Athens** and the **American Academy in Rome**, and certain privileges of those schools are available, without fee, to graduates of the College.

Course credit for courses taken at institutions abroad, other than Reid Hall, is treated as transfer credit (see page 38).

## Study at Jewish Theological Seminary

The Jewish Theological Seminary of America, located two blocks from the Barnard campus, offers opportunities to Barnard students for specialized study under a cooperative arrangement. Students may enroll in courses at the Seminary under any of three options: (1) individual courses; (2) a year's study in residence at the Seminary; or (3) a double degree program.

A student wishing to study at the Seminary should consult her adviser and obtain the written permission of her major department chairman. Courses taken at the Jewish Theological Seminary are evaluated as transfer credit (see page 38 for rules on transfer credit). Students who wish to obtain simultaneously the degree of Bachelor of Arts from Barnard and Bachelor of Hebrew Literature from the Seminary must consult advisers in both institutions, and must be separately admitted to each.

Qualified Barnard students may request housing at the Seminary. Students who enroll in the Seminary College will be subject to Seminary tuition charges. Seminary College students may also apply to the Barnard Admissions Office to become special students or to fulfill the requirements for the A.B. degree at Barnard.

# Other Academic Opportunities

## **Study at the Manhattan School of Music**

The Manhattan School of Music is located one block to the north of the Barnard campus. Under a recently established program of cross-registration, musically qualified Barnard students have the opportunity to enroll in private music lessons at the Manhattan School, subject to the regulations specified in the application form available at the Office of the Registrar. Students interested in this possibility should consult with the chairman of the Barnard Music Department.

## **Special Academic Programs**

Barnard offers a summer academic program for secondary school students, "Summer in New York: Barnard's Pre-College Program." Program information and applications are available in the Office of the Dean for Special Academic Programs.

## **DOUBLE AND JOINT DEGREE INTRAUNIVERSITY PROGRAMS**

Barnard offers double and joint degrees in coordination with other schools in the University system, including the School of International and Public Affairs, School of Engineering, and Law School. Details on specific programs are given below.

### **School of International and Public Affairs**

Barnard College and the Columbia University School of International and Public Affairs offer a joint program leading to the A. B. degree at the end of four years and the M. I. A. (Master of International Affairs) after one additional year.

Application to this program is made through the Office of the Dean of Studies by March 1 of the junior year but, to ensure appropriate guidance and preparation, consultation is recommended in the sophomore year with the Senior Class Dean at Barnard. Although the Dean of Studies Office determines application procedures and may nominate as many as four students, the final decision regarding admission to the joint program rests with the SIPA Review Committee. The nominees will arrange for an interview with two SIPA deans before the last day of classes in the spring term.

A Barnard student's eligibility for the joint program with SIPA rests on the following conditions:

1. A minimum grade point average of 3.3.
2. At least four semesters of matriculation at Barnard College before enrolling in the joint program.
3. Fulfillment of all basic and distribution requirements before the senior year.
4. No more than four courses (16 points) in the major to be completed during the senior year.
5. Completion of introductory courses in microeconomics and macroeconomics and, if possible, a course in statistics by the end of the junior year. (No SIPA transfer credit is given for these courses.)

A Barnard student in the program must satisfy all Barnard degree requirements. Courses in the School of International and Public Affairs may be used to fulfill major requirements only with the written permission of the chair of the major department. As a senior, after consultation with a SIPA dean and her major adviser at Barnard, she will elect 15 to 18 points of SIPA course work, including a substantial part of the SIPA Core (A) Requirement. A typical program would include most of the 12 credits of courses at the 4000 level or above in the following areas:

1. International politics
2. International law
3. U.S. foreign policy
4. Foreign political processes (comparative politics)

A grade of B or better is required in all courses for which transfer credit is granted.

Admission to the joint program does not constitute admission to the School of International and Public Affairs. Formal application to the School is made in the autumn of the senior year, and final admission is contingent upon conferral of the A. B. degree and a satisfactory grade point average while in the joint program.



# Other Academic Opportunities

## **Graduate Program in Public Policy and Administration**

Barnard College and the Graduate Program in Public Policy and Administration offer a joint degree program (the M.P.A. program) leading to the A.B. degree at the end of four years and the Master of Public Administration after one additional year.

Although application to the program is made in the junior year, it is advisable to consult Professor Demetrios Caraley, 402 Lehman, as early as the sophomore year to plan an appropriate undergraduate course of study. Admission to the joint program does not constitute automatic admission to the M.P.A. program. The student in the joint program applies for admission to the graduate program in the Autumn term of her senior year. Final admission is conditional upon the applicant's receiving the A.B. degree from Barnard with an approximate grade point average of 3.5.

A Barnard student in the joint program must satisfy all basic, distribution, and major requirements for the A.B. degree at Barnard. Courses in the graduate program may be used to fulfill major requirements only with the written consent of the chairman of the department in which the student is majoring. During the junior and senior years she must complete at least 24 points of course work at the 4000 level or above, including the first-year required core courses specified in the Bulletin of the Graduate Program in Public Policy and Administration. An internship, usually during the summer between the fourth and fifth years, is also required. In the fifth year of the program a student completes at least 30 points including a workshop and policy specialization requirements.

## **School of Law**

Barnard College has the option of nominating, in conjunction with the Columbia University School of Law, two outstanding juniors each year to enter the Law School under the Accelerated Program in Interdisciplinary Legal Education (A.I.L.E.). Each student must submit a record of 90 points, including all general requirements, 60 of which will have been completed at Barnard. Each must also demonstrate that she will be able to complete her major and the final 30 points at the Law School, 12 of which must be in the liberal arts and the remainder in appropriate law courses.

To be nominated, a student must have an outstanding academic record (3.6 average or above), and have taken the LSAT by March of her junior year.

Students interested in the program should consult with the Dean for Pre-Professional Students early in the junior year and with the Senior Class Dean to ensure fulfillment of graduation requirements. LSAT applications are available in the Dean of Studies Office; the test is usually offered in June, October, December and February or March.

## **School of Oral and Dental Surgery**

A limited number of qualified students may wish to enter the School of Oral and Dental Surgery after three years of undergraduate work at Barnard. To be eligible for this program, before entering the Dental School, the student must have completed 90 points of academic work at Barnard and all of the prerequisite courses for the Dental School. To be eligible for the A.B. degree, she must have completed 120 points, 30 of which may be taken at the Dental School, and she must have completed all of the general and major requirements of Barnard College.

A student interested in this option should consult with the Dean for Pre-Professional Students in the sophomore year for early program planning. Before her admission to the Dental School she should consult with the Senior Class Dean to make certain that she will be eligible for the A.B. degree while attending the Dental School.

## **School of Engineering**

Barnard College and the School of Engineering and Applied Science offer undergraduate programs in the professional branches of engineering and in the applied sciences under a cooperative program. In addition to the general admission requirements, course work in mathematics through trigonometry, physics, and chemistry is desirable for entering students interested in engineering or applied science.

# Other Academic Opportunities

The first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a few courses are taken in the Engineering School. During the junior year the student applies for admission to the School of Engineering and Applied Science, where the remaining two years of more specialized engineering study are taken. Completion of the basic, distribution, and major requirements is required for the Barnard A.B. degree. A maximum of 30 points may be credited for engineering courses. Students interested in the program are encouraged to consult the adviser for combined programs in the Office of the Dean of Studies to plan an appropriate schedule of courses.

It is also possible to follow a four-year program which leads only to the Bachelor of Science degree. Two years of pre-engineering subjects are taken at Barnard, after which the student applies for admission to the School of Engineering and Applied Science. The remaining two years of engineering study are completed there.

Details of specific entrance requirements are available from the Office of Admissions of the School of Engineering and Applied Science and from the Office of the Dean of Studies at Barnard. Further information about the engineering program and the advanced degrees may be obtained in the bulletin of the school.

## CULTURAL EXCHANGE WITH THE UNIVERSITY OF ROME

According to the Agreement of Cultural Exchange signed by Barnard and the University of Rome in May 1980, Barnard College and Columbia University faculty will work in parallel or integrated courses with their colleagues at the University of Rome. Through these courses Barnard students will enjoy the unique opportunity of a dialogue between their professors and the visiting guests as an integral part of their classroom work. A joint Executive Committee of Barnard College, Columbia University, and University of Rome faculty directs the Exchange which is administered by the Center for International Exchange.

## AUDITING

### **Student Auditing**

Matriculated students may audit courses in special instances by arrangements with the instructors. Permission to audit a course is granted at the instructor's discretion. Courses audited do not appear on the student's program or transcript; they are **not** graded; and they may **not** be subsequently converted to credit courses.

### **Alumnae Auditing**

Many Barnard courses are open to alumnae for auditing. No credit is given and no charge is made. The only requirement is that permission of the instructor must be obtained. Those interested in this program should contact the Alumnae Office and request a copy of the current catalogue and information about procedures.



# IX. Registration

## REGISTRATION PROCEDURES

### **Registration for New and Continuing Students**

Instructions and materials for registration, enclosed in individual packets, are available to students in Altschul Hall on the days designated for registration.

Students are expected to register during the registration times published in the College Calendar, page 6. Permission to register may be refused to students who do not observe the deadline for registration. Those students who have permission to register late will be assessed additional fees, as posted at the Registrar's Office.

Bills for tuition and fees (see page 19) are mailed before the beginning of the semester, and payment must be received by the deadline published in the College Calendar, page 6. In addition, any outstanding debts to the College or University, including library fines, must be paid before the student may register.

The final stage of the registration process is program filing (see page 46), which must be completed by the published deadline (see College Calendar, page 6). If for some compelling reasons students must enroll in less than a full-time program, the written permission of one of the deans in the Dean of Studies Office is required.

### **Registration for Resumed Education Students**

Resumed Education students are those Barnard students who have been away from the College for five years or more and are returning to complete the A.B. degree requirements and those Barnard graduates who are returning to the College to take additional course work. They obtain registration information during the regular registration period (see College Calendar, page 6) in the Dean of Studies Office from the Director of the program who is their academic adviser. Resumed Education students are subject to regular registration procedures and deadlines and payment of late registration fees.

### **Registration for Columbia University Courses**

Many courses offered in other divisions of the University are open to qualified Barnard students; those cross-listed in the Barnard Catalogue do not normally need special approval; all undergraduate courses listed in the Columbia College bulletin do not need special approval unless so indicated in the course description. Other courses **not** cross-listed in the Barnard Catalogue may require divisional or instructor's approval in addition to the approval of the student's academic adviser. Columbia University courses are entered on the Barnard program; specific instructions are enclosed in the registration packet. The student is expected to have reviewed the course description and prerequisites before consulting an adviser, to determine for herself whether she is eligible to enroll.

Certain Columbia courses are sectioned prior to registration. Barnard students wishing to register in such courses must take part in the sectioning procedure.

Only students enrolled in the Education Program are eligible to take the Teachers College methods courses cross-listed in the Catalogue. All Teachers College courses which are **not** cross-listed require approval of the Barnard Dean of Studies by submission of a petition form during the first week of the term, and also require payment of additional Teachers College fees.

# Registration

## STUDENT PROGRAMS

### Program Filing

The list of courses for which the student is registered each semester is known as the student's **program**.

Each student is required to attend the appropriate program-planning meeting at the end of each semester (see College Calendar, page 6) and to consider seriously her selection of courses for the following semester.

During the program-planning period each freshman and first-semester sophomore files her tentative program for the following semester with her class adviser. Each senior, junior, and second-semester sophomore is expect to consult with her major adviser about her program for the following semester.

During the program-planning period, various departments post sign-up sheets for laboratory courses, sectioned courses, and limited-size courses. A student who wishes to enroll in such a course or courses must enter her name on these sheets to ensure a place for the following semester.

Between registration and the date for program filing a student is required to reach a *final* decision on the courses she will take for the term. The final program, signed by her academic adviser, is filed at the Office of the Registrar before the published deadline. There is no refund issued for courses dropped after the published deadline for program filing, and any part-time program filed after that date will be assessed full tuition. Note: the deadline for submission of programs is separate from, and somewhat later than, the registration deadline (see College Calendar, page 6). Programs filed late must be approved by each instructor and the Committee on Programs and Academic Standing, and will be assessed additional fees, which will be posted at the Registrar's Office. A student who neglects to file a program is subject to academic probation.

### Adjustment of fees and refunds

**For changing program of study.** If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be refunded the excess only if the alteration of her program is made by September 12 (last day of program filing) in the Autumn Term and by January 28 in the Spring Term. If the new program calls for higher tuition, the student is responsible for paying the additional charges promptly.

### Schedule of Classes and Room Assignments

Class times and room numbers are published in the **Schedule of Classes and Room Assignments**, available during registration. Final information on changes in class times and rooms is posted at the entrance to Milbank Hall. Disabled students needing wheelchair-accessible classrooms should provide this information to the Associate Registrar during program planning.

### Sign-Up Sheets

Enrollment in certain courses is strictly limited and students are encouraged to indicate their intent to enroll in those courses well before registration by entering their names on "sign-up" sheets which are posted outside departmental offices and which list criteria for course enrollment.

### Section Changes

A change from one section to another of a course after program-filing requires the approval of the instructor of the new section and the class adviser on the appropriate form to be submitted to the Office of the Registrar. Prior to program-filing the change should be made on the program form itself with departmental approval.

### Adding Courses

Courses may not be added after the deadline for filing academic programs (see College Calendar, page 6). Up to that deadline, the student may add courses either on the program form, if she has not already submitted it, or by an Application to Add a Course, available at the Office of the Registrar. Adding a course requires the signatures on either the program or add form of the class adviser and the major adviser.



# Registration

## **Dropping Courses**

Courses may be dropped by submission of an Application to Drop a Course or Section, available at the Office of the Registrar. The form requires the signature of the class adviser and the major adviser, and must be returned to the Office of the Registrar before the deadline published in the College Calendar (see page 6). Courses dropped by the deadline will not be recorded on the permanent transcript. If withdrawal from a course is approved after the deadline, the course will be recorded on the permanent transcript with the notation W (Withdrawal). No adjustment of fees is made for any course dropped after the deadline for program filing.

## **Attendance**

Students are expected to attend classes regularly. Frequent or prolonged absences from classes may cause a student to forfeit the right to complete course work or to take final examinations.

A prolonged or serious illness is considered an excuse for absence only if the student files a statement signed by her physician with the Office of Health Services immediately upon her return to a regular attendance schedule.

Barnard is a non-denominational college which does not schedule religious holidays in the academic calendar, although every effort is made to avoid the dates of major religious observances in the scheduling of class meetings, deadlines, and examinations. It is expected that students who miss classes due to observance of religious holidays will make individual arrangements with their instructors to make up any work missed as a result of absence.

## **Withdrawal and Readmission**

A student not subject to discipline for infraction of College rules may withdraw from the College during the semester by submitting a Notice of Intention to Withdraw form to the Office of the Dean of Studies with the signature of the parent or guardian before the final examination period. If the student withdraws during the semester without submitting the proper notification, the term's work is subject to a grade of **UW**. (For information on partial refund of tuition, see page 21.)

A student in good health who leaves with her record complete and who is in good standing may re-register within one year of the date of withdrawal without reapplying through the Office of Admissions. No readmission fee is charged a student who submits a written confirmation of her intention to return to the Office of the Dean of Studies by April 1 for the Autumn term or November 1 for the Spring term. After an absence of one year a student must file readmission forms through the Office of Admissions and pay readmission fees (see page 17).

## **Exceptions to College Regulations**

Requests by students for exceptions to college regulations governing the award of academic credit and requirements for the degree may be addressed to the Faculty Committee on Programs and Academic Standing. Petition forms are available at the Office of the Registrar and should be returned there. Requests which bear the appropriate signatures of advisers and instructors normally receive consideration within two weeks of their submission.

# X. Examinations

## **Language Placement Examinations**

The foreign language requirement can be met by completing the required courses at Barnard (for individual languages see departmental curriculum statements), or by a College Entrance Examination Board (CEEB), score of 750 or above, or, for transfer students, by having completed acceptable qualifying language courses.

### **Transfer Students**

A transfer student who has a CEEB score is placed according to that score alone, if she has had no previous college language courses. The determination is made by the Assistant Dean for Transfer Services, according to the provisions of an established scale. A transfer student who has no CEEB score or previous college language courses, must, if she wishes to continue with a particular language, take a placement test. Transfer students who are not required to take an examination are notified of language placement along with the evaluation of their transfer credits.

### **Freshman Students**

Freshman students are placed (or exempted) on the basis of their CEEB scores. Those with no scores who wish to continue languages studied in high school take placement examinations. The Freshman Program Director advises all new freshmen of their language requirements.

### **Summer School Language Courses**

Students, other than incoming transfer or freshman students, who take summer language courses and wish exemption or placement in their continuing language studies must take a language placement examination, or secure departmental approval to receive degree credit and enter a higher level.

Any student who has been placed according to her CEEB score or previous study of the language may take a placement examination if she wishes, but she must then accept that placement, even if it is lower than her previous placement.

A student who does not wish to continue with a language in which she has been placed may begin the study of a new language.

Applications for Language Placement Examinations are available at the Office of the Registrar; the examination dates are published in the College Calendar, page 6. The examinations are evaluated and placement is made by the appropriate departments. Results are posted at the Office of the Registrar.

## **Departmental Placement Examinations**

Students may obtain exemption from or placement in certain courses by means of departmental placement examinations, for example in the Mathematics and Physics departments. Information and applications for the examinations are available in departmental offices, and deadlines are particular to each department.

## **Make-Up Examinations During the Term**

Instructors are not required to give make-up examinations to students absent from previously announced tests during the term. An instructor who is willing to give a make-up test may request a report of illness from the College physician or acceptable evidence of other extenuating circumstances.



# Examinations

## Final Examinations

There are no class meetings on the last class day before the final examination period in each term. This interval may be extended for any class, at the option of the instructor, to the full week prior to the examination period. The dates for final examinations, given at the end of each term, are published in the College Calendar, page 6. Exact times and room numbers for individual examinations are sent to each student and posted on the bulletin board at the Office of the Registrar two weeks before final examinations.

Barnard examinations are given under the Honor Code which states that a student should not ask for, give, or receive help in examinations, nor should she use papers or books in a manner not authorized by the instructor. She should not present work that is not entirely her own except in such a way as may be approved by the instructor. The Honor Code further implies that any student or member of the faculty who has first-hand knowledge of a violation of these rules has an obligation to report it to the Dean of Studies or Honor Board.

A student who wishes to leave the room before the end of the examination period will submit her blue books to the instructor. If a student becomes ill during the course of the examination, she must notify the instructor and go to the College Physician, Brooks Hall, Lower Level. If less than an hour has expired, a grade of DEF will be recorded on the transcript and she will take a deferred examination. If a student remains for more than one hour for a three-hour examination, she will be graded on the work she has completed.

## Deferred Final Examinations

Deferred final examinations for Barnard courses, given in September and January (see College Calendar, page 6), are open only to those students who were absent from the regular examinations for reasons of illness or emergency. An instructor may decline to give a deferred examination to a student whose attendance has been unsatisfactory. Exceptions to these conditions can be made only by petition to the Committee on Programs and Academic Standing before the regular examination period begins.

Absence from final exams for reasons of health should be reported to the Office of Health Services in person or by telephone on the day of the examination. In case of an emergency, the Dean of Studies should be notified. For Columbia-taught courses, the instructor or the Columbia department must also be informed.

Examinations missed in December are to be taken the following January or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a compelling and valid excuse from a final or deferred examination, she will receive a grade of zero for that examination. Applications for deferred examinations are filed with the Office of the Registrar by designated dates (see College Calendar, page 6). A payment of a \$10 handling fee for each examination must accompany the application.

Arrangements for deferred examinations in other divisions of the University must be made by the student with the instructors, and should be completed during the term following registration for the course.

## Examinations for Disabled Students

Individual arrangements can be made for disabled students unable to take examinations in the usual manner. Disabled students are normally expected to take their exams with the rest of the class, with disability-related modifications as needed. A disabled student who anticipates the need for a special examination procedure should consult her instructor(s) and the Dean for Disabled Students at the beginning of the semester.

## SAT, GRE, and LSAT Examinations

Information and application forms for the Scholastic Aptitude Examination, the Graduate Record Examination, the Law School Admissions Test, and other specialized examinations are available in the Office of the Dean of Studies.

# XI. Grading and Academic Honors

## Grading system

Academic standing and eligibility for graduation are determined by both the number of courses completed and the grades for those courses. The system used at Barnard is as follows:

A+, A, A-	Excellent
B+, B, B-	Good
C+, C	Satisfactory
C-, D	Unsatisfactory but passing
F	Failure
P	Passed without a specific grade on student's election of P/D/F option
P*	Passed in a course for which only a grade of P or F is allowed
I	Incomplete
X	Absence from final examination
NC	No credit
Y	For the first half of a two-semester course in which the grade for the second semester is the grade for the entire course
W	Approved withdrawal after "drop" deadline
UW	Withdrawal from course without official notification to Registrar

Pass-fail grades are recorded for all students in certain courses, e.g., in physical education. Pass-fail grades for individual students are subject to regulations described below.

Regulations that apply to grades of I (Incomplete) are outlined on page 51.

Grades of I or X that were recorded in 1980-81 or before will be changed to NC (no credit) if the missing work is not submitted and the portion of the course work that had been completed was passing; beginning 1981-82 the unsubmitted work will be calculated as zero in averaging the final grade. If the work completed was not passing, the grade will be changed to F.

In the computation of grade point averages, marks for courses are awarded on the following scale:

A+ = 4.3	B+ = 3.3	C+ = 2.3	D = 1
A = 4	B = 3	A = 2	F = 0
A- = 3.7	B- = 2.7	C- = 1.7	

In order to be recommended for the degree, a student must maintain a cumulative average of 2.0 (C) for 120 or more points completed with passing grades. At the end of each term all records are examined. Normally only those students with cumulative averages of 2.0 or above are permitted to remain in college. Students whose work falls below the cumulative average of 2.0 may be permitted to continue at Barnard only with the permission of the Committee on Programs and Academic Standing.

Courses in which the student receives the grade of D may not be counted toward the major requirement, or the minor option.



# Grading and Academic Honors

## Grade Reports

The grade report for the autumn term is enclosed in the student's registration packet in January. At the end of the spring term, a cumulative grade report of all the student's work at Barnard is sent to the home address. The cumulative grade report is an unofficial transcript for which there is no charge. A student may request that her grade reports be sent to her parents or guardian by filing a permission card with the Registrar. Parents who have established their daughter's status as a dependent may receive transcripts of her grades without her consent by writing to the Dean of Studies. If the student wishes additional transcripts, a charge of \$2 per copy will apply (see Transcripts, page 52).

## Pass/D/Fail Option

A student may request a course to be graded under the Pass/D/Fail option by submitting a Request for Pass/D/Fail form to the Office of the Registrar before the deadline published in the College Calendar, page 6. The forms are available at the Office of the Registrar about two weeks before the deadline. Under the Pass/D/Fail option the student is held responsible for fulfilling all the course requirements. A passing letter grade of A, B, or C reported by the instructor is converted to P by the Office of the Registrar. A grade of D or F is not converted.

Some courses record Pass-Fail grades for all students enrolled, e.g., English BC 1202.

At least 99 of the 120 points required for graduation must be assigned letter grades, including Freshman English and all courses designated to count toward the major (and minor, if the student has designated a minor). The Pass/D/Fail option does not apply to these courses.

No limitation is placed on the number of Pass grades that may be recorded in a single term, except those rules which apply to the Dean's List, to eligibility for financial aid, and to the 99-point minimum requirement for letter grades.

Grades of P are not included in the grade point average. A grade of F whether or not received under a pass-fail option is computed as zero in the grade point average.

The request for a course to be graded under the Pass/D/Fail option is **irreversible**. Subsequent change to a letter grade will not be allowed, and the option may not be elected retroactively.

## Incompletes

A student may for compelling reasons arrange with her instructor to take a grade of I (Incomplete) by means of written approval on forms available at the Office of the Registrar. The deadline for filing the Application for Incomplete is the last day of the reading period.

There are two Incomplete options. The "early Incomplete" requires submission of unfinished work to the Registrar soon after the end of the term by the date designated in the College Calendar and results in the removal of the "I" notation from the transcript. The second option extends the deadline to the first day of classes for the next autumn term, but the "I" notation remains on the permanent transcript and is joined by the final letter grade. The full regulations that apply to Incompletes are listed on the Application for Incomplete form available to the Office of the Registrar. Students must have the permission of their instructors to take grades of Incomplete, and are required to use the form, which is a written guarantee of the terms set forth in it by the student and the instructor.

## Eligibility for Intercollegiate Athletics

Any student at Barnard College, Columbia College, or in the Columbia School of Engineering and Applied Science who is pursuing the undergraduate program or a combined program toward a first degree is eligible for intercollegiate athletics, provided that certain conditions are met. To be eligible for athletic activities, the student must

- be a candidate for a bachelor's degree.
- be registered for at least 12 points of credit per semester.

# Grading and Academic Honors

- have passed by the beginning of the academic year 24 points if in the second year, 52 points if in the third year, or 86 points if in the fourth year.
- have attended the University for not more than eight terms.
- not have completed the requirements for a bachelor's degree.

An eligibility blank must be filed with the Director of Athletics. The completed blank is sent to the Office of the Registrar where eligibility is determined by examining the student's record. Questions about athletic eligibility should be referred to the Dean of Studies, 105 Milbank.

## Dean's List

The Dean's List, which includes the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. To be eligible, a student must be enrolled at Barnard for both terms. Her grade point average will be based on all her letter grades, **a minimum of 12 letter-graded points in each term**, exclusive of those courses receiving grades of P.

## Transcripts

Transcripts are ordered by the student or alumna by written request to the transcript secretary in the Office of the Registrar. An official Transcript Request Form is available, but the request may also be made by letter, provided that the letter includes the following: student's name (including maiden and married names) and Social Security number, dates of attendance at Barnard, purpose of the transcript, number of copies desired, specifications as to whether the transcript should or should not be delayed until the latest semester's grades have been entered, name(s) and address(es) to which the transcript is to be sent, the student's full signature, and a \$2 check or money order for each transcript ordered. Official copies of transcripts (those bearing the seal of the College) can be sent only to academic institutions, business organizations, and government offices. Unofficial copies of transcripts may be sent to the student. All copies of transcripts, official and unofficial, are sent only at the written request of the student, and are subject to the \$2 fee. There is no charge, however, for a transcript sent to a division of the University.

## Honors

The Faculty awards honors to students who complete work for the degree with distinction (*cum laude*), with high distinction (*magna cum laude*), and with highest distinction (*summa cum laude*). Students whose records include study at other institutions will be eligible for honors if both the overall and the Barnard grade point averages meet this requirement. If grades for transfer credit cannot be converted to Barnard equivalents, the qualifying average may be computed on a sliding scale. Grades for summer work are excluded from the grade-point average. Departmental honors are awarded to a percentage of eligible graduates nominated by their departments for distinguished work in their major fields. The final selection is made by the Committee on Honors.

## Phi Beta Kappa

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship, and Barnard students of exceptionally high standing are eligible. Under the 35-course plan, eligibility for election as a senior will require 30 completed courses. Under the point system, junior election will require a minimum of 86 completed points and senior election, 102. Questions concerning Phi Beta Kappa should be referred to the Office of the Dean of Studies.



# XII. Courses of Instruction

## The Curriculum

The Barnard curriculum consists of forty-four departments and programs. At present, twenty-seven departments and eight interdisciplinary programs offer majors, and students may also elect minors if they choose. All academic programs listed are planned for 1986-87; their listing in this catalogue is not a guarantee of their availability in subsequent years, and the College may revise its degree requirements from time to time.

## Classes

The usual schedule consists of 15 points each semester, but depending on a student's interests or departmental requirements, additional courses may be added. However, an additional fee is charged per point for a program exceeding 18 points (see page 19 for the fee schedule). Classes vary in size. Those in which student participation is important are small. Introductory courses and classes taught primarily by the lecture method are often divided into smaller groups for conference and discussion. Laboratory work in the sciences is conducted with modern equipment, and computer facilities are available at Barnard.

## Courses of Instruction

Course descriptions will be found in the following pages. Room assignments and all other registration information are published in a separate bulletin and distributed during registration.

Autumn term courses are followed by an **x**; Spring term courses are followed by a **y**.

Indivisible **Barnard** courses that run throughout the year are marked with a hyphen between the numerals (e.g., Music BC 1001-BC 1002). No credit is given for work in an indivisible course dropped at midyear without the written consent of the instructor and department chairman and the approval of the Committee on Programs and Academic Standing. The first semester of elementary language, whether taken at Barnard or elsewhere, does not receive degree credit unless the second semester is completed.

Divisible Barnard courses, which run throughout the year, are marked with a comma between the numerals (e.g., Environmental Science BC 1001x, BC 1002y). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only with written permission of the instructor. Certain courses are offered in both Autumn and Spring terms (Economics BC 1001x, BC 1001y) and may be taken in either term.

The following alphabetical prefixes designate the division of the university for whose students the course is primarily offered or indicate joint courses. Hyphens and commas between course numbers for other than BC courses do not necessarily have the connotations described above for Barnard courses.

# Courses of Instruction

BC—Barnard College (The last two digits of these numbers indicate the former numbers of these courses, with the exception of English A, Spanish A-B, Spanish 2, Spanish 3A-4A.)

C—Columbia College

F—School of General Studies

G—Graduate School of Arts and Sciences

R—School of the Arts

V—Joint undergraduate course (Barnard with Columbia College and/or the School of General Studies)

W—Other inter-faculty course

The level of the course is generally as follows:

1000-3999 Undergraduate

4000-4999 Advanced undergraduate and first-year graduate

5000-8999 Graduate, normally not open to undergraduates





# American Studies

*Office: 410 Lehman Hall*

*Telephone: 280-2159, 4385*

The program is supervised by the Committee on American Studies:

**Professor of History**

Robert A. McCaughey

**Professor of Art History**

Barbara Novak

**Associate Professor of History**

Charles S. Olton

**Associate Professor of History**

Rosalind N. Rosenberg (Acting Director)

**Visiting Associate Professor of History**

James B. Bell

**Assistant Professor of Anthropology**

Nan Rothschild

**Assistant Professor of English**

Alfred Bendixen

**Assistant Professor of History**

Janet A. Riesman<sup>1</sup>

<sup>1</sup>Absent on leave, 1986-87

This program helps students develop an understanding of American civilization considered as a whole. Specialized studies in all fields of learning dealing with American subject matter are included in the program, and the impact of these studies is reflected in the work of the senior seminar. Faculty members supervising the program are specialists in American cultural, intellectual, social, and political history; American women's history; American art history; American literature; anthropology; museum studies; and American material culture. All are committed beyond their individual specialties to an interdisciplinary approach to the study of American history and culture. The program maintains ongoing relations with the Center for American Culture Studies and the Oral History Program both of Columbia University and the New-York Historical Society.

## REQUIREMENTS FOR THE MAJOR

In order to acquire a broad understanding of American civilization and acquaintance with various methods of studying it, a student who majors in American Studies must take a program, planned in consultation with her major adviser, consisting of 12 courses. Students are advised to take the American history survey course (either BC 1051, BC 1052 or their equivalent) in their sophomore year and American Studies BC 3401 in their junior year, but exceptions are allowed. All majors take American Studies BC 3703, BC 3704 in their senior year. Courses taken in other departments in fulfillment of the major requirements may be taken in any coherent sequence. The program crosslists all courses offered at Barnard and Columbia that are appropriate for the major. A complete list is available from the program office.

The 12 courses must represent the following distribution:

- 2 semesters of the American history survey course (History BC 1051, BC 1052 or their equivalent); normally a prerequisite for American Studies BC 3401
- 1 semester Junior Colloquium: American Studies BC 3401 Cultural Approaches to the American Past
- 1 seminar utilizing methods or materials bearing on the study of American civilization (normally taken in the spring of the junior year). The following seminars are highly recommended; others may be substituted with permission of the program director:

Art History BC 3679

*Colloquium on Modern Art: Modernism and the Mass Media, 1930-present*

# American Studies

English BC 3140 Section II  
 English BC 3140 Section III  
 English-Women's  
 Studies BC 3144  
 History BC 3450  
 History BC 3451  
 History BC 3457

History BC 3458

*Explorations of Black Literature*  
*The City in Literature: New York*  
*Minority Women Writers in the United States*

*History of Childhood in America*  
*Law in American Society*  
*Culture and Society in Antebellum America,*  
*1790-1850*  
*America at War*

1 course specifically concerned with methodological or theoretical issues bearing on the study of culture and society. The following courses are recommended; others may be substituted with the permission of the program director:

Anthropology V 1002  
 Anthropology V 1006  
 Anthropology BC 3142

English BC 3183  
 English BC 3193  
 History BC 3455

Library Science K 8005  
 Women's Studies BC 3112

*Introduction to Culture*  
*Introduction to Archaeology*  
*Anthropological Approaches to the Study of*  
*Cities*  
*Modern Literature and the Allied Arts*  
*Critical Writing*  
*Reckoning with the Past: History, Historians*  
*and the Computer*  
*Oral History*  
*Colloquium on Women's Studies*

2 courses in either American literature and/or American art history

2 courses in the social sciences only one of which may be in history

1 course that provides a comparative perspective on American culture. This requirement may be fulfilled either by taking a course in the humanities or social sciences that examines a culture other than America or by taking one of the following highly recommended courses:

Art History C 3964  
 Art History BC 3670

English BC 3122  
 English BC 3187

English BC 3185  
 History W 4741  
 History-Japanese W 3600  
 Oriental Humanities V 3200  
 Religion V 3780

*The European Image of America*  
*European and American Architecture from the*  
*Eighteenth Century to 1900*  
*American and British Dialects*  
*American Writers and their Foreign Counter-*  
*parts*  
*Modern British and American Poetry*  
*The Great Depression in Europe and America*  
*World War II in American and Japan*  
*Oriental Encounters: The American Experience*  
*Religion in Racially Stratified Societies*

2 semesters of the Senior Seminar in American Studies BC 3703, BC 3704. BC 3703 is normally offered jointly with History BC 3793; BC 3704 is a tutorial devoted to individual research and supervised by the program director and/or another member of the American Studies Committee. The essay produced during these seminars constitutes fulfillment of the senior-project requirement.

## REQUIREMENTS FOR THE MINOR

A student who minors in American Studies must take a program consisting of 5 courses. The courses must represent the following distribution:

1 semester of the American history survey course (either History BC 1051, BC 1052, or the equivalent); normally a prerequisite for American Studies BC 3401

1 semester Junior Colloquium—American Studies BC 3401, Cultural Approaches to the American Past

1 seminar utilizing methods or materials bearing on the study of American civilization chosen from the recommendations noted above

2 semesters of either American literature and/or American art history



# American Studies

## COURSES OF INSTRUCTION

### ASH BC 3401x. Cultural Approaches to the American Past.

A survey of theories and methods which have helped illuminate the American past and define American culture: myths and symbols in American history and literature; structuralist and Marxist cultural analyses; studies of ethnicity and cultural pluralism; anthropological, sociological, and psychological methodologies, investigations of popular, mass, folk, and material culture.—J. Bell.

4 points. Th 2:10-4:00.

AMS BC 3703x, AMS BC 3704y.

### Senior Seminar.

Individual research on diverse aspects of American civilization, in consultation with instructors, and presentation of results in the form of the senior essay.—R. Rosenberg, B. Tischler, and staff.

Enrollment limited to senior majors.

4 points. Tu 4:10-6:00.

AMS BC 3999x, AMS BC 3999y.

### Independent Research.

Staff.

3 or 4 points. Hours to be arranged.

## AMERICAN STUDIES COURSES IN OTHER DEPARTMENTS:

Students should consult appropriate departmental listings for complete information about these courses:

### Anthropology

V 1002

*Introduction to Culture*

V 1006

*Introduction to Archaeology*

BC 3142 Section III

*Anthropological and Archaeological Approaches to the Study of Cities*

BC 3868

*Ethnographic Research in New York City*

W 4352

*Museology*

W 4354

*Archaeology of New York City*

W 4634

*Structured Time and Social Space*

### Art History

BC 3670

*European and American Architecture from the Eighteenth Century to 1900*

BC 3679

*Colloquium on Modern Art: Modernism and the Mass Media, 1930-present*

BC 3998

*Social and Political Functions of Architecture*

C 3964

*The European Image of America*

W 4624

*American Painting, 1760-1900*

### Economics

BC 2013

*Economic History of the United States*

BC 2014

*Topics in American Economic History*

BC 2026

*Modern Capitalism*

BC 2032

*Money and Capital Markets*

### English

BC 3122

*American and British Dialects*

BC 3140 Section II

*Explorations of Black Literature*

BC 3140 Section III

*The City in Literature: New York*

BC 3144

*Minority Women Writers in the United States*

BC 3179

*American Literature since 1900*

BC 3180

*American Literature since 1890*

BC 3181

*American Fiction*

BC 3183

*Modern Literature and the Allied Arts*

BC 3185

*Modern British and American Poetry*

BC 3187

*American Writers and their Foreign Counterparts*

BC 3193

*Critical Writing*

BC 3998 Section VII

*Senior Seminar: American Literature (with instructor's permission)*

### Experimental Studies

BC 3001, BC 3002

*Experimental Studies Seminar*

BC 3003

*Contemporary Issues in Feminist Thought*

### Health and Society

BC 1005

*Medical Care in Twentieth Century America*

# American Studies

BC 1009	<i>Caring for the Mentally Ill: Treatment and Policy Issues</i>
BC 3013	<i>Women, Health and Health Care</i>
History	
BC 1051, BC 1052	<i>Survey of American Civilization</i>
BC 3052	<i>The Constitution in Historical Perspective</i>
BC 3053	<i>American Colonial History, 1607-1760</i>
BC 3054	<i>America in the Revolutionary Era, 1760-1800</i>
BC 3066	<i>American in the Gilded Age</i>
BC 3067	<i>America since 1945</i>
BC 3082	<i>History of Women in America since 1890</i>
BC 3450	<i>History of Childhood in America</i>
BC 3451	<i>Law and American Society</i>
BC 3455	<i>Reckoning with the Past</i>
BC 3457	<i>Culture and Society in Antebellum America, 1790-1850</i>
BC 3458	<i>America at War: A Comparative Study</i>
BC 3486	<i>Progressivism in Peace and War, 1901-1920</i>
Library Science	
K 8005	<i>Oral History</i>
Music	
V 1015	<i>American Music</i>
Oriental Humanities	
V 3200	<i>Oriental Encounters: The American Experience</i>
Political Science	
BC 3001	<i>Dynamics of American Politics</i>
BC 4311	<i>American Parties and Elections</i>
V 3313	<i>American Urban Politics</i>
BC 3316	<i>The American Presidency</i>
BC 3322	<i>The American Congress</i>
BC 3325	<i>The Judicial Process</i>
BC 3328	<i>Women and American Politics</i>
BC 3327	<i>Colloquium on the Content of American Politics</i>
V 3994-V 3995	<i>New York Area Undergraduate Research Program</i>
Religion	
V 3503	<i>History of Religion in America</i>
V 3760	<i>American Indian Religions</i>
V 3780	<i>Religion in Racially Stratified Societies</i>
Sociology	
V 3215	<i>American Society and Politics</i>
V 3265	<i>Minorities and Ethnic Groups in American Life</i>
V 3303	<i>Female and Male: A Sociological Perspective</i>
W 3235	<i>Dilemmas of Loyalty and Power in the United States, 1945-1955</i>
Women's Studies	
BC 3111	<i>Major Texts of the Feminist Tradition</i>
BC 3112	<i>Colloquium on Women's Studies</i>
BC 3117	<i>Women and Film: Sexual Roles in the United States</i>
BC 3144	<i>Minority Women Writers in the United States</i>



# Ancient Studies

Office: 215 Milbank Hall

Telephone: 280-4389

This program is supervised by the Committee on Ancient Studies:

**Assistant Professor of Art History (Columbia)**  
Beth Cohen ( Representative for General Studies)

**Assistant Professor of Classics (Columbia)**  
Darice Birge ( Representative for Columbia)

**Associate Professor of Classics**  
Lydia Lenaghan ( Representative for Barnard)

**Associate Professor of Classics**  
Helene P. Foley ( Representative for Barnard)<sup>1</sup>

**Professor of History (Columbia)**  
William V. Harris

**Assistant Professor of Religion**  
Holland Hendrix

<sup>1</sup>Absent on leave, 1986-87

Ancient Studies is designed to allow the student to explore various aspects of the ancient Mediterranean and Mesopotamian cultures while concentrating on one of these major civilizations. By studying these cultures in several academic disciplines the student will acquire a general knowledge and a context for her area of specialization. At Barnard and in the University a very large number of courses pertaining to antiquity is offered each year, and the program prepares an annual list to aid students in making their selections. This list may be obtained from the Representative for Barnard.

## REQUIREMENTS FOR THE MAJOR

Each student, after consultation with the Representative for Barnard, chooses an adviser whose field is closely related to her own and with whom she will do her senior reading. The programs of all the students are reviewed by the Ancient Studies Committee, in order to maintain control and a sense of collective enterprise.

- A total of 36 points are required in the major, including
  - at least 4 courses in one geographical area or period;
  - courses in at least three departments ( to ensure proper interdisciplinary training and experience);
  - the elementary sequence of a relevant ancient language;
  - the appropriate history course, and;
  - at least the first semester of Ancient Studies V 3998, V 3999.

In some cases, a senior seminar in one of the departments may be substituted for Ancient Studies V 3998, V 3999. Ancient language courses may be used toward the major requirement; however, where a second ancient language is offered, one second-year sequence must be offered to gain credit for the first year.

## REQUIREMENTS FOR THE MINOR

No minor is offered in Ancient Studies.

# Ancient Studies

## COURSES OF INSTRUCTION

**ANC V 3997x, ANC V 3997y.**

### **Directed Readings in Ancient Studies.**

A program of readings in some aspect of Ancient Studies, supervised by an appropriate faculty member chosen from the departments offering Ancient Studies courses. Testing by a series of essays, one long paper, or oral or written examination(s).—Staff.

*Permission of the departmental representative required.*

*3 points. Hours to be arranged.*

**ANC V 3998x, ANC V 3999y.**

### **Directed Research in Ancient Studies.**

A program of research in Ancient Studies. Research paper required. For 3999y, the topic

must be submitted to the departmental representative and the appropriate adviser decided upon by November 15 of the semester preceding that in which the student will be enrolled in the course. For 3998x, the corresponding deadline will be April 1 of the semester preceding that in which the student will be enrolled in the course. The student and the departmental representative will request supervision of the research paper from an appropriate faculty member in a department offering Ancient Studies courses.—Staff.

*Permission of the departmental representative required.*

*3 points. Hours to be arranged.*

A list of other relevant courses of instruction offered in 1986-87 may be obtained from the Representative for Barnard.





# Anthropology

Office: 411 Milbank Hall

Telephone: 280-4314, 5417

**Professors**

Morton Klass (Chairman), Abraham Rosman,<sup>2</sup> Paula G. Rubel,<sup>2</sup> Joan Vincent<sup>2</sup>

**Assistant Professors**

Nan A. Rothschild<sup>3</sup>

**Visiting Professor**

Sidney Greenfield

**Visiting Assistant Professor**

Cynthia Saltzman

Other officers of the University offering courses listed below:

**Professors**

Alexander Alland, Jr., Myron Cohen,<sup>2</sup> Morton H. Fried, Ralph Holloway, Robert Murphy, Harvey Pitkin, Elliott P. Skinner,<sup>3</sup> Ralph Solecki<sup>1</sup>

**Assistant Professors**

Terence D'Altroy,<sup>1</sup> Theodore Bestor, Elaine Combs-Schilling,<sup>1</sup> Libbet Crandon,<sup>2</sup> Ross Hassig,<sup>3</sup> William Macdonald, Don J. Melnick,<sup>1</sup> Katherine Newman<sup>1</sup>

<sup>1</sup>Absent on leave, Autumn Term.

<sup>2</sup>Absent on leave, 1986-87.

<sup>3</sup>Absent on leave, Spring Term.

Anthropology is the study of the biological and cultural development of the human species, and of the variety of human societies and their cultures. The student majoring in this field will acquire an understanding of humans and their ways that is not bound by her own time and culture. In doing so, she will find herself drawing upon the literature of such diverse disciplines as genetics, archaeology, ethnography, linguistics, and the social sciences. Students with a degree in anthropology may undertake graduate and professional study in anthropology; they may also enter upon careers in other fields, such as development, education, government, journalism, law, labor organization, medicine, or social work administration, where the value of a training in anthropology is becoming increasingly recognized. The practical and applied dimensions of anthropology have increased significantly in recent years, and the profession attempts to serve many non-academic needs both in American society and in international organizations.

Several major museums and libraries in New York City offer exceptional opportunities for research. Various summer schools provide opportunities for research in archaeology and ethnography, and under certain circumstances such work may be credited toward the Barnard degree. Students interested in cultural anthropology are encouraged, whenever possible, to conduct research in the New York area, or, during their summer vacations, in other localities.

All courses, except those limited to majors, satisfy the College's distribution requirements.

## REQUIREMENTS FOR THE MAJOR

Every major is expected to have a general knowledge of all the fields of anthropology and of their interrelationship. The student's program should be designed in consultation with her adviser as soon as possible after the declaration of the major. Regular and frequent meetings with the adviser are encouraged.

Ten courses are required for the major, including

- |            |   |
|------------|---|
| ANT V 1001 | <i>Introduction to Human Origins;</i>     |
| ANT V 1002 | <i>Introduction to Culture;</i>           |
| ANT V 3011 | <i>Social Organization;</i>               |
| ANT V 3041 | <i>History of Anthropological Theory;</i> |

# Anthropology

2 colloquia; and 4 other Anthropology courses, one of which will be an Area course (e.g., Peoples of the Middle East, Peoples of Europe, Peoples of Africa, Peoples of Southeast Asia). The requirements of 2 colloquia and an Area course may be met by either undergraduate or graduate courses.

Students majoring in Anthropology are required to submit a substantial research paper or essay. Such a paper may have its origin in a colloquium (or in another course acceptable to the department), and be completed in ANT BC 3871x-ANT BC 3872y; or it may be based on papers submitted for two colloquia, the papers of which are to be presented to the department, along with introductory and culminating statements that make of them an entity; or it may be the result of a year's independent research in BC 3871x-BC 3872y.

## REQUIREMENTS FOR THE MINOR

The minor consists of 5 courses:

ANT V 1001 or ANT V 1002;  
ANT V 3041;  
one area course; and two other courses.

The department also cooperates with related programs such as Foreign Area Studies, Urban Studies, and Women's Studies, and with other departments offering, as an option to their majors, a four-course cluster in Anthropology (e.g. Architecture). Arrangements for combined, double, joint, and special majors are made in consultation with the chairman.

Premedical students who wish to minor in anthropology should seek the advice and approval of the department chairman.

## COURSES OF INSTRUCTION

### INTRODUCTORY COURSES

#### **ANT V 1001x, ANT V 1001y. Introduction to Human Origins.**

Human biological and cultural evolution, as studied by physical anthropologists and archaeologists.

3 points.

x: Section I M W 1:10-2:25. M. Fried.

Section II Tu Th 2:40-3:55. N. Rothschild.

Discussion hours to be arranged.

y: Tu Th 6:10-7:25. W. MacDonald.

Discussion hours to be arranged. V/S

#### **ANT V 1002x, ANT V 1002y. Introduction to Culture.**

Comparative and functional analysis of culture; habitat, technology, and economy, social and political relations; ideology—magic, religion, and science; art, music, and literature; life cycles and personality.

3 points.

x: Section I M W 1:10-2:25. R. Murphy.

Section II Tu Th 1:10-2:25. M. Klass.

Discussion hours to be arranged.

y: Section I Tu Th 10:35-11:50. S. Greenfield.

Section II M W 1:10-2:25. M. Fried.

Discussion hours to be arranged. V/S

#### **Linguistics LIN V 1101x, LIN V 1101y.**

##### **Introduction to Linguistics.**

See Linguistics listing.

#### **ANT V 1006x. Introduction to Archaeology.**

The history, goals, theoretical frameworks, research designs, and techniques and methods for conducting archaeological research. The relationship of archaeology to anthropology, art history, and classics.—Instructor to be announced.

3 points. M W 6:10-7:25.

V/S

#### **ANT V 1010y. The Human Species: Its Place in Nature.**

Designed to acquaint students with a variety of scientific disciplines through the investigation of human evolution, specifically, Darwin's Theory of Evolution; Mendel's principles of inheritance; major patterns of organic evolution; primate behavior, ecology, and evolution; and the fossil remains and evolutionary trends in human evolution.—D. Melnick.

3 points. M W 11:00-12:15.

V/S

#### **ANT V 3201y. Introductory Survey to Biological Anthropology.**

Human species in biological and evolutionary perspective with particular emphasis on the



# Anthropology

behavioral and morphological aspects of our evolution. Topics to be covered include evolutionary theory and basic population genetics, non-human primate behavior, fossil evidence for human evolution, human variation, and interactions of biology and culture.—R. Holloway.

3 points. Tu Th 4:10-5:25.

V/S

## INTERMEDIATE COURSES

### ANT V 3002x. Political Anthropology.

The development and comparative study of political structure and government in non-western societies. Instructor to be announced.

3 points. Tu Th 6:10-7:25.

V/S

### ANT V 3005x. Peoples of Africa.

Survey of African cultures, with intensive analysis of selected peoples. *Not offered in 1986-87.*

3 points.

V/S

### ANT V 3006y. Peoples of Southeast Asia.

Selective survey of traditional and changing Southeast Asian societies; emphasis on cultural, social, and ecological dimensions of tribal and peasant life.

*Not offered in 1986-87.*

3 points.

V/S

### ANT V 3007y. Peoples of Europe.

Intensive analysis of selected ethnographic studies reflecting cultural variation and change in European societies.—Instructor to be announced.

3 points. W F 10:35-11:50.

V/S

### ANT V 3009y. Peoples of the Middle East.

An introduction to peoples and cultures of the Middle East and North Africa, with an emphasis on Arabs and Islam. Focus on the role of patrilineality, Arabic, commerce and Islam in the construction of Muslim societies.—E. Combs-Schilling.

3 points. Tu Th 4:10-5:25.

V/S

### ANT V 3010y. Native Peoples of Lowland South America.

Introduction to the peoples and cultures of native South America, including pre-history, ecology, social relations, belief systems, effects of the Spanish conquest, and the impact of modern change.—R. Murphy.

*Not offered in 1986-87.*

3 points.

V/S

### ANT V 3011y. Social Organization.

Institutions and organization of social life, particularly in non-literate societies; kinship and locality in the structuring of society.—C. Saltzman.

*Prerequisite: An introductory anthropology course.*

3 points. Tu Th 10:35-11:50.

V/S

### ANT V 3014y. Peoples of East Asia.

Introduction to the contemporary societies of China, Japan, and Korea, with special reference to the process of social change; emphasis on the interconnections between local communities and the total national societies.—M. Cohen.

3 points. Tu Th 4:10-5:25.

V/S

### ANT V 3016x. Peoples of the Pacific.

Comparative analysis of the ethnographic setting of Polynesian, Micronesian, and Melanesian populations; emphasis on theoretical contributions achieved and current anthropological problems being considered by researchers in the area.

*Not offered in 1986-87.*

3 points.

V/S

### ANT V 3017x. Caribbean Societies in the Global System.

From Columbus to Castro, the societies of the Caribbean as they have been influenced by powerful socio-cultural forces emanating from the global arena. Characteristics of these societies are analyzed from the perspective of theories of pluralism, dependency, and globalism.—E. Skinner.

3 points. M W 1:10-2:25.

V/S

### ANT V 3018x. The Development of Urbanism: An Archaeological Perspective.

Development and maintenance of prehistoric urban societies, drawing upon examples from both the New and Old Worlds; relationships between developmental processes, environmental exploitation, urban-rural interactions, and the internal dynamics and structure of the city itself.

*Not offered in 1986-87.*

3 points.

V/S

### ANT V 3020y. Men's and Women's Speech.

Cross-cultural and cross-linguistic investigation of differences among men's and women's speech patterns as these are exemplified in literature, ethnographic texts, and actual utterances by speakers in various social settings; study of differences on the phonological, lexical, syntactic, and discourse levels; relation between cultural and linguistic patterns; variation across speakers and in time.

*Prerequisite: Course V 1001 or V 1002.*

*Not offered in 1986-87.*

3 points.

V/S

# Anthropology

## **ANT V 3021x. Sex Roles in Cross-Cultural Perspective.**

Consideration of cultural expectations about male and female behavior in non-Western and Western societies. Differences in the social, economic, religious, and political behavior of men and women in a variety of cultures. Belief about sex and the sexes as well as the presence or absence of sex antagonisms. *Not offered in 1986-87.*

3 points. V/S

## **ANT V 3024x. Changing Africa.**

Major forces at work in contemporary Africa, and examination of changes that are taking place in the economic, social, political, educational, and artistic institutions of the emerging nation-states of that continent.—E. Skinner. *Not offered in 1986-87.*

3 points. V/S

## **ANT V 3025y. Law, Culture, and Society.**

Survey of law and order systems in Western and non-Western societies. Examination of the kinds of social control problems that societies of different levels of complexity confront and the solutions that those societies forward. Forms of conflict behavior, methods of dispute settlement, and substantive law content.—K. Newman.

*Not offered in 1986-87.*

3 points. V/S

## **ANT V 3027y. Culture and the Individual.**

Development of personality in various cultural contexts: child-rearing and socialization; the role of personality theories in analyzing social systems and situations of culture change. *Not offered in 1986-87.*

3 points. V/S

## **ANT V 3030y. Japanese Society and Culture.**

Sociocultural factors influencing Japan's emergence as a highly urbanized society and examination of anthropological approaches to the study of complex societies.—T. Bestor.

3 points. M W 6:10-7:25. V/S

## **ANT V 3032x. The Archaeology of the Old World.**

Survey of the principal areas of cultural development in Europe, Asia, and Africa from the earliest beginnings of human culture to the dawn of first civilization.—Instructor to be announced.

3 points. M W 2:40-3:55. V/S

## **ANT V 3033x. Sociolinguistics.**

Speech considered as a social activity; the speech community; socially motivated linguistic change; ethnography of speaking;

regional and social dialects; sex linked speech; the strategic use of language in varying speech events; analysis of natural discourse.—A. Galin.

3 points. M W 1:10-2:25. V/S

## **ANT V 3034y. Ethnolinguistics.**

Linguistics categories and their relation to culture; systems of folk-classification and their analysis; linguistic representations of time, space and other systems of orientation; analysis of myths, stories, and other ethnographic texts; relationships between language and thinking.—A. Galin.

3 points. M W 2:40-3:55. V/S

## **ANT V 3036x. Peasant Societies.**

Introduction to pre-industrial agrarian social systems; patterns of community organization and the relationship between the community and the state.—Instructor to be announced.

3 points. W F 9:10-10:25. V/S

## **ANT V 3037y. Societies in Transition.**

Analysis of the changes that have taken place in rural and urban societies since the nineteenth century with emphasis on cultural and institutional relations between localities, regions and states. Ethnographies from Europe, America and the Third World.—E. Skinner.

*Not offered in 1986-87.*

3 points. V/S

## **ANT V 3038x. Ethnic Relations in Changing Societies.**

Analysis and comparison of ethnic relations in settings of cultural pluralism with special reference to America, Europe and Third World countries.

*Not offered in 1986-87.*

3 points. V/S

## **Anthropology-Women's Studies**

### **ANW V 3039y. Women in Third World Development.**

Comparison of women's social and economic roles in both traditional and modernizing societies. Women's roles in the family, community and class structure will be discussed through a detailed examination of a series of ethnographies.—E. Crandon.

*Prerequisite: An introductory Anthropology or Women's Studies course or permission of the instructor.*

*Not offered in 1986-87.*

3 points. V/S



# Anthropology

## **ANT V 3041x.**

### **History of Anthropological Theory.**

Intellectual developments contributing to the formalization of anthropology as a discipline. The works of Montesquieu, Comte, Maine, Durkheim, and Marx, along with the theoretical writings of such anthropologists as Tylor, Morgan, Boas, Malinowski, and Radcliffe-Brown.—C. Saltzman.

3 points. Tu Th 10:35-11:50. V/S

## **ANT V 3042x. The Anthropology of Religion.**

Ideological systems of simple or preindustrial cultures; relations between religion and other aspects of culture.—Instructor to be announced.

3 points. W F 2:40-3:55. V/S

## **ANT V 3044y. Symbolic Anthropology.**

The ordering of experience through symbols in various cultures. The symbolic significance of natural anomalies, twins, the body, space, time, inversions, jokes and riddles examined through selected readings from Durkheim, van Gennep, Lévi-Strauss, Mary Douglas, Victor Turner, and others.—E. Combs-Schilling.

Not offered in 1986-87.

3 points.

## **ANT V 3100x. Anthropology of Urban Life.**

Evolution of cities: a cross-cultural view of kinds of urban formations; examinations within an anthropological context of various aspects of urban life.—T. Bestor.

3 points. M W 6:10-7:25. V/S

## **ANT V 3105x. Cities and Crime:**

### **Anthropological Perspectives on Urban Life.**

Examines crime and deviance as a property of urban life drawing on anthropological studies of cities in North America, Asia, Africa, Europe and Latin America.—T. Bestor.

Not offered in 1986-87.

3 points.

## **ANT V 3128x. Medical Anthropology.**

Examination of social and cultural factors as they relate to problems of health, illness, and medicine in the United States and in other societies.—L. Crandon.

Not offered in 1986-87.

3 points. V/S

## **ANT V 3203y. Primate Behavior.**

Introduction to the study of primates, emphasizing social behavioral patterns as adaptation within ecological constraints; primate taxonomy, fossil record, social be-

havior, uses and abuses of primate studies for understanding human evolution and behavior.—D. Melnick.

*Prerequisite: Course V 3201 or permission of the instructor.*

Not offered in 1986-87.

3 points.

V/S

## **ANT W 3204x. Dynamics of Human Evolution.**

Seminar focusing on recent advances in the study of human evolution. Topics include: recent fossil discoveries, changing views of human evolution, early hominid social behavior, evolutionary theory, and sociobiology.—L. Lewis.

*Prerequisite: V 3201 or the permission of the instructor.*

3 points. Tu Th 1:10-2:25.

V/S

## **ANT W 4272x. Social Change in Israel.**

An intensive analysis of recent social, political and cultural changes in Israeli society. Particular attention will be given to changing ethnic patterns, Arab-Jewish relations, and shifting ideologies.—Instructor to be announced.

Not offered in 1986-87.

3 points.

V/S

## **ANT W 4111y. Latin American Communities.**

The kinds and distribution of small communities in Latin America, including peasant villages, haciendas and plantations, and towns. Their relation to the larger society as well as their internal workings.—S. Greenfield.

3 points. Tu Th 2:35-4:00 plus hour to be arranged. V/S

## **ANT W 4150y. Ethnology of Native Americans.**

Patterns of aboriginal culture north of Mexico. Native American history and culture change since European contact. United States administration of Native American affairs and the Native American minority today.—P. Rubel.

Not offered in 1986-87.

3 points.

V/S

## **ANT W 4187y. South Asian Society and Culture.**

An examination of the peoples, institutions, and problems of contemporary South Asia. Among the topics to be covered are: village ecology and economy, community structure, family and kinship, the caste system, village-level religion, and culture change.—M. Klass.

Not offered in 1986-87.

3 points.

V/S

# Anthropology

## **ANT W 4236y. Ecological Studies in Anthropology.**

The use of ecological principles and data in analysis of non-Western societies and the interpretation of culture change. Analyses aimed at understanding adaptation of human societies to their environment.—W. Macdonald.

*3 points. Tu 2:10-4:00 plus hour to be arranged.*

V/S

## **ANT W 4346y. Laboratory Techniques in Archaeology.**

Training in general archaeological methods. Data recording techniques, preparation of reports, illustrations, etc. Should be taken simultaneously with W 4348x.—R. Solecki.

*Enrollment limited to 15 students.*

*Not offered in 1986-87.*

*3 points.*

## **ANT W 4347y. Economic Anthropology.**

Approaches to the study of resource allocation: production, consumption, and distribution in tribal and peasant societies. Contemporary theoretical issues and selected ethnographic accounts.

*Not offered in 1986-87.*

*3 points.*

V/S

## **ANT W 4348x. Field Archaeology.**

Introduction to archaeological techniques and methods of excavation.—W. Macdonald.

*Permission of the instructor required.*

*Approximately seven field sessions, supplemented by classroom work. Students must pay for their transportation and food in the field. Should be taken simultaneously with W 4346x.*

*Not offered in 1986-87.*

*3 points.*

V/S

## **ANT W 4350y. Cultural Resource Management.**

Discussion of laws and regulations concerning the preservation of national archaeological resources and the procedures of cultural resource management. Contribution that public archaeology makes to research in the discipline.—N. Rothschild.

*Not offered in 1986-87.*

*3 points.*

V/S

## **ANT W 4352x. Museology.**

Methods and procedures of artifact conservation, cataloguing and display. Use of collections for research purposes.—N. Rothschild.

*Not offered in 1986-87.*

*3 points.*

V/S

## **ANT W 4354y. Archaeology of New York City.**

The archaeology of Greater New York City and environs, from earliest Palaeo-Indian times to the early colonization of New York. Lectures illustrated from original research material, with visits to museums, and field trips to local archaeological sites. No previous coursework in archaeology necessary.—R. Solecki.

*3 points. Tu Th 10:35-11:50.*

V/S

## **ANT W 4625x. Anthropology and Film.**

Use of film by anthropologists as a means of documentation of culturally patterned behavior and as a research tool. Films will also be analyzed as cultural texts.—P. Rubel.

*Not offered in 1986-87.*

*3 points.*

## **ANT G 6308y. Colloquium on South Asian Anthropology.**

An examination of current theoretical and substantive issues in South Asian anthropology, particularly "caste," "village Hinduism" and "social change."—M. Klass.

*3 points. Th 2:10-4:00.*

## **ANT G 6352x. Museology.**

An examination of museums as reflectors of social priorities which store important objects and display them in ways that present significant cultural messages. Discussion of history, natural history and art museums, and visits to several New York museums. Students will learn how a museum functions and will work in a new departmental museum, the William Duncan Strong Museum of Anthropology, designing and preparing an exhibit.—N. Rothschild.

*4 points. Tu 10:00-12:50.*

## **Dance DAN BC 2568y. Dance and Movement: An Anthropological Approach.**

An investigation of the theories and methods used to observe and analyze dance and movement in symbolic and social contexts. Critical examination of texts from the literature of anthropology and of dance. Course includes film viewing, practice in making observations, and a field work project.—C. Novack.

*Alternate years; not offered in 1986-87.*

*3 points.*

## **SEMINARS**

### **ANT C 3830x. Colloquium: An Archaeological Perspective on Cultural Evolution.**

A critical examination of theories dealing with the evolution of complex societies in



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pre-history. Topics include the development of urbanism, hydraulic agriculture, militarism, population pressure, and the role of religious ideology in the transformation from egalitarian to state-level societies.—T. D'Altroy.

*Not offered in 1986-87.*

4 points.

V/S

## **ANT BC 3142x, y. Colloquium: Current Anthropological Theory.**

Intensive analysis of selected theoretical approaches and issues in anthropology.

*Enrollment limited to ca. 16 students.*

4 points.

V/S

## **ANT BC 3142x. I. Male and Female in Cultural Analysis.**

An examination of male and female perspectives as they affect analysis of social structure, symbolism and political authority.—A. Rosman.

*Not offered in 1986-87.*

## **ANT BC 3142y. II. The Eclectic Approach in Anthropology.**

An argumentative inquiry into the nature of theory in contemporary anthropology from the monotheoretical (such as Cultural Materialism) to the eclectic.—M. Klass.

*Not offered in 1986-87.*

## **III. The Study of Cities.**

The origins, growth and definition of cities are discussed, with particular attention paid to the spatial organization of cities and the development of neighborhoods. New York City is used as a laboratory for analysis, and each student will choose a part of the city to study.—N. Rothschild.

*Not offered in 1986-87.*

## **IV. Ethnicity and Ethnic Relations.**

An investigation of the notion of "marginality" which focuses on one ethnographic case, such as the Gypsies, and examines their relationship to the societies in which they exist.—C. Saltzman.

*Th 2:10-4:00.*

## **ANT V 3500y. Colloquium: Problems in Structuralism.**

Reading and research in anthropological theories of structuralism; review of works of Claude Lévi-Strauss, Edmund Leach, and others in relation to relevant work in linguistics, psychology, sociology and philosophy.—R. Murphy.

*Enrollment limited to 20 students.*

4 points. W 2:10-4:00.

V/S

## **ANT V 3700x. Colloquium: Anthropological Research Problems in Complex Societies.**

Study of the local community and its relationship to regional and national societies; discussion of plural societies, minority and ethnic groups in a cross-cultural setting. Cases selected from Africa, Latin America, Asia, Europe, and North America.—S. Greenfield.

4 points. W 11:00-12:50.

## **ANT V 3715y. Colloquium: Anthropology and American Society.**

Qualitative studies of class cultures, ethnic communities, and subcultures in American society as well as institutional (educational, medical) and bureaucratic cultures.—K. Newman.

*For juniors and seniors.*

*Not offered in 1986-87.*

4 points.

V/S

## **ANT V 3720y. Colloquium: Marxism and Ethnography.**

Examination of some basic sources of Marxist social theory, their implications for anthropological theory and method, and selected ethnographies influenced by or relevant to them.—K. Newman.

*Enrollment limited to 20 students.*

*Not offered in 1986-87.*

3 points.

## **ANT V 3920x. Seminar: The Evolution of Prehistoric Economic Systems.**

A survey of the models and methods appropriate to analysis of the development of economic systems from the earliest societies to the rise of the ancient civilization. Problems considered include analysis of subsistence strategists, specialization of production, economic differentiation, and exchange systems from a variety of perspectives. Models and data will be drawn from archaeological, ethnoarchaeological, and ethnohistorical sources.—T. D'Altroy.

*Introduction to Archaeology or permission of the instructor required. Enrollment limited to 15 students.*

*Not offered in 1986-87.*

4 points.

## **ANT BC 3868y. Ethnographic Research in New York City.**

Seminar-Workshop on field research in New York City. Lectures, discussions and demonstrations of research methods of anthropology followed by supervised field research on selected ethnographic topics in a variety of urban settings.—P. Rubel.

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*Enrollment limited to ca. 16 students.  
Field work required. Not offered in 1986-87.  
4 points.*

## **ANT BC 3871x-ANT BC 3872y. Senior Research Seminar.**

Discussions and conferences on individual advanced research projects including those which have developed from students' participation in Anthropology BC 3868. Each student is engaged in independent research under the guidance of her Senior Essay Adviser. All students participating in the seminar may meet together periodically for joint discussion. During the Spring Term a final seminar meeting may be held at which students present their work prior to its submission as satisfying the Senior Research Essay requirement of the Department.—Staff.  
*4 points. Hours to be arranged.*

## **ANT BC 3999x, ANT BC 3999y. Individual Projects.**

Research projects are planned in consultation with members of the department and work is supervised by the major's Research Essay adviser. The advisory system requires periodic consultation and discussion between the student and her adviser as well as the meeting of specific deadlines set by the Department each semester.—Staff.

*Permission of the instructor required.  
4 points. Hours to be arranged.*

## **GRADUATE COURSES**

Certain graduate courses given in the University are open to qualified majors with the consent of the department chairman and the major adviser. These courses are described in the Bulletin for the Graduate School of Arts and Sciences. As noted, graduate seminars may be used to satisfy the requirement of 2 colloquia and graduate area courses may be used to fulfill the area course requirement.





# Architecture

Office: 310 Barnard Hall

Telephone: 280-8430

## Assistant Professor

Donna V. Robertson (Architecture Program Director)

## Adjunct Assistant Professors

Deborah Nevins, Suzanne Stephens

Officers of the University offering courses listed below:

## Associate Professors

Dorothea Nyberg, Susana A. Torre

## Assistant Professors

Roy Strickland (Departmental Representative)

## Adjunct Assistant Professors

Douglas Darden, Peggy Deamer, Randall Ott, Eugene Santomasso, Andrew Tesoro

Architecture majors experience and investigate the central aspects of the field. The major provides an inclusive program offering opportunities to explore historical and contemporary relationships among physical, social and cultural forms and environmental contexts. Active studio work complements seminar discussions, lectures and research; students are required to choose a “cluster” of courses in another area of particular interest, thus relating architecture to other disciplines.

Students considering an Architecture major or minor should consult with the adviser before sophomore registration to develop the most appropriate sequence of studio and lecture courses. Those interested in graduate study in architecture should consult with the adviser in their junior year concerning their programs.

## REQUIREMENTS FOR THE MAJOR

The major in Architecture is required to complete fourteen courses, at least five of which should be Barnard courses:

4 Studio courses, to be taken one per semester (studio courses have limited enrollment and priority is given to Architecture majors and upperclassmen):

ARC V 3103

ARC V 3101

ARC V 3201-ARC V 3202

*Freehand Drawing*

*Architectural Graphics*

*Elements of Architectural Design  
I and II*

5 Lecture courses from the following list:

ARC C 1001

ARC C 3301

ARC C 3302

Art History W3150

Art History V 3248

Art History V 3250

Art History BC 3661

Art History BC 3669

Art History BC 3670

Art History C 3833

ARC A 4330

*Introduction to Architecture*

*The Beginnings of Architecture*

*Architecture in the Western World*

*Art & Architecture of the Ancient  
Near East*

*Greek Art and Architecture*

*Roman Art and Architecture*

*European Architecture from the  
Renaissance to 1700*

*French Architecture 1500-1800*

*European Architecture from the  
18th Century to 1900*

*Twentieth Century Architecture  
Urban History I*

Each semester there are other applicable courses scheduled at the University that can be taken upon approval of the adviser. For the description of these courses consult the listings of other departments.

# Architecture

2 Seminars to be taken in the junior or senior year:

ARC V 3901  
Art History BC 3993

ARC BC 3425  
ARC BC 3431

Art History C 3990  
Art History BC 3996  
Art History BC 3998

*Senior Seminar I or II*  
*Visionary Architecture, 1700 to the Present*  
*The History of Landscape Design*  
*Architectural Criticism in the Essay Form*  
*The Literature of Modern Architecture*  
*Art of the Rococo*  
*Social and Political Functions of Architecture*

3 courses, chosen in consultation with the adviser from one area of study or cluster such as Anthropology, Art History, Economics, Environmental Conservation and Management, Geography, History, Philosophy, Political Science, Psychology, Sociology, Urban Studies, or Studio Art.

Students who wish to continue in graduate studies in Architecture for a professional degree are also advised to take:

ARC BC 3211  
Physics V 1003  
Mathematics V 1100

*Intermediate Design I*  
*General Physics*  
*Brief Calculus*

## REQUIREMENTS FOR THE MINOR

The minor in Architecture consists of five courses, including V 3103 and 3 History/Theory courses to be chosen in consultation with the adviser.

Note: All studio, seminar, and upper level courses require the permission of the instructor and student sign-up before registration.

### **ARC C 1001y. Introduction to Architecture.**

Intended for prospective architecture majors as well as those interested in acquiring a general familiarity with architecture. Basic concepts and representative buildings. Lectures, readings, discussions and field trips.—Instructor to be announced.

*Recommended in the sophomore year.*

*Not offered in 1986-87.*

*3 points.*

### **ARC C 3301x. The Beginnings of Architecture.**

Survey of the history of architecture from prehistoric times through the fall of Rome, including major examples of non-Western architecture.—E. Santomaso.

*Recommended in the sophomore year.*

*3 points. Tu Th 2:40-3:55.*

### **ARC C 3302y. Architecture in the Western World.**

Continuation of Course C 3301. Survey of European architecture from the fall of Rome to the beginnings of the Industrial Revolution.—E. Santomaso.

*Recommended in the sophomore year.*

*3 points. Tu Th 1:10-2:25.*

### **ARC V 3901y. Senior Seminar.**

Readings, individual class presentations, and written reports.—D. Robertson and R. Strickland.

*Open to architecture majors only.*

*3 points.*

*Section I F 9:00-11:00.*

*Section II Th 11:00-1:00.*

### **ARC BC 3425y. The History of Landscape Design: Seminar.**

Landscape design and theory since the Renaissance; analysis of program, composition and elements of major public and private gardens in Europe and America. The education and profession of garden designers such as Lenôtre, C. Brown, F.L. Olmsted, G. Jekyll, V. Sackville-West and B. Farrand.—D. Nevins.

*3 points. F 11:00-12:50.*

### **ARC BC 3431x. Architectural Criticism in the Essay Form: Seminar.**

Investigation of three critical modes developed by architectural historians, journalists and architects in relation to architecture and urban design. Analysis of key texts written from the 1850s to the present.—S. Stephens.

*3 points. W 11:00-12:50.*



# Architecture

## STUDIO COURSES

**ARC V 3103x, V 3103y. Freehand Drawing.**  
Drawings from nature and architecture; spatial notations; image systems and their use; research in three dimensions.—D. Darden.

*Recommended in the sophomore year.*

*3 points.*

*Section I Tu Th 9:00-10:50.*

*Section II Tu Th 11:00-12:50.*

**ARC V 3101x, ARC V 3101y. Architectural Graphics.**

Studio introduction to a two- and three-dimensional graphics vocabulary with emphasis on measured drawing techniques and scale model construction.

*Recommended in the sophomore year.*

*3 points.*

*Section I Tu Th 9:00-10:50. R. Ott.*

*Section II Tu Th 11:00-12:50. A. Tesoro.*

**ARC V 3201x. Elements of Architectural Design I.**

Workshop introduction to architectural design: fundamental explorations of space and form through design exercises requiring drawings and models. Studio work, lectures, discussions and written analysis—D. Robertson and staff.

*Prerequisite: V 3103 or V 3101.*

*4 points. M W 9:00-11:50.*

**ARC V 3202y. Elements of Architectural Design II.**

Workshop continuation of Course V 3201. Field trips and lectures organized in relationship to the studio exercises.—Roy Strickland and staff.

*Prerequisite: V 3201.*

*4 points. M W 9:00-11:50.*

**ARC BC 3211x. Intermediate Design I.**

Further exploration of the design process. Programs of considerable functional, contextual, and conceptual complexity are undertaken.—D. Robertson.

*Candidates for admission to the course are chosen by interview during the spring term of the junior year. Eligible students are requested to consult the program adviser for Barnard College before April 1.*

*Prerequisites: V 3202 and permission of the program adviser.*

*4 points. Tu Th 9:00-11:50.*

**ARC BC 3099x, 3099y. Independent Study.**

*Prerequisite: permission of program adviser for Barnard College.*



# Art History

Office: 301 Barnard Hall

Telephone: 280-2118

## Professors

Barbara Novak, Helen Goodhart Altschul Professor, David Freedberg (Chairman)

## Adjunct Professor

Brian O'Doherty

## Associate Professors

Dorothea Nyberg, Jane Rosenthal

## Assistant Professors

Margaret S. Nesbit,<sup>1</sup> Alison West

Other officers of the University offering courses listed below:

## Professors

James Beck, Richard Brilliant, George Collins,<sup>1</sup> Joseph Connors, Rainer Crone, Alfred Frazer,<sup>1</sup> Miyeko Murase,<sup>2</sup> Stephen Murray, Esther Pasztor, Théodore Reff, David Rosand, Allen Staley

## Adjunct Professors

Carl Dauterman, Colta Ives, Linda Seidel

## Assistant Professors

Suzanne Blier, Beth Cohen, Jerrilyn Dodds, Marilyn Wong-Gleysteen, Michael Marrinan,<sup>1</sup> Diane Wolfthal<sup>1</sup>

## Visiting Associate Professor

Vidya Dehejia

<sup>1</sup>Absent on leave, 1986-87

<sup>2</sup>Absent on leave, Autumn Term

Art History, which is devoted to the study of the visual arts, is one of the broadest of the humanistic disciplines. It is concerned not only with the nature of works of art—their form, style, and content, but also with the social, political, and cultural circumstances that shape them. The introductory level courses aim at developing in students a lifelong understanding and appreciation of works of art. The rest of the curriculum is geared to preparing majors either for graduate study leading to careers in university teaching and museums, or for positions in the art world, in galleries, publication, criticism, the visual media, art consultation, conservation, and the like. These courses also provide opportunities for correlated learning to students in other fields. The department, fortunate in being located in New York City, one of the world's great art centers, takes full advantage of the rich resources of the city's museums and galleries in its course of study.

## REQUIREMENTS FOR THE MAJOR

Each major chooses an adviser who assists her in planning a program that incorporates personal interests while meeting departmental requirements. Nine courses are required for the major. Art History BC 1001, 1002, *Introduction to the History of Art*, is strongly suggested as an introduction to the field though it may be waived if a student has sufficient previous training. The nine courses should include at least one in each of the following periods—ancient, medieval, renaissance, baroque and modern—and two seminars. Of these, four lecture courses and one seminar should be taken at Barnard. Majors concentrating in Oriental art and who will write their senior essay in that field may substitute a course in Chinese or Japanese art for one of the five area requirements in Western art. Courses in film are accepted as part of the major; studio courses are not.

A senior essay is required of the major. With the chairman's permission, seniors may elect Art History BC 3999, *Independent Research*, for the senior essay but the course may not be used to fulfill the seminar requirements. The senior essay may be an expansion of a seminar paper.

Students who plan to undertake graduate work should obtain a reading knowledge of at least two foreign languages in which the major contributions to the history of art have



# Art History

been made. Most graduate schools require a reading knowledge of French and German; the department strongly recommends taking German while at Barnard.

## REQUIREMENTS FOR THE MINOR

The minor in Art History consists of five lecture courses, including Art History BC 1001 and BC 1002, and one each in three of the following periods: ancient, medieval, renaissance, baroque, and modern.

## COURSES OF INSTRUCTION

### **ARH BC 1001x, ARH BC 1002y.**

#### **Introduction to the History of Art.**

Brief examination of the techniques of visual analysis, followed by a chronological survey of the major period styles of Western European art. Emphasis on the interpretation of form and content in the works studied and on the correlation of the visual arts with their respective cultural environments. Autumn Term: Greek and Roman art, medieval art. Spring Term: Renaissance to modern art.—Instructor to be announced.

*Either course may be taken separately.*

*3 points. M W 1:10-2:25. I/H*

### **ARH W 3030y. Arts of Africa, Oceania, Native America.**

A survey of tribal art styles of Africa, Oceania and America with emphasis on function, iconography and historical relationships.—S. Blier.

*3 points. M W 6:10-7:25.*

### **ARH V 3080x. Pre-Columbian Art and Architecture.**

Survey of pre-Hispanic art of Mesoamerica, Central America, and the Andean region from the earliest times to the Spanish conquest.—E. Pasztory.

*3 points. Tu Th 10:35-11:50. I/H*

### **ARH W 3133y. Islamic Art and Society.**

Major monuments of a millennium of Arab and Persian art as an expression of the development and growth of Islamic civilization.—J. Dodds.

*Not offered in 1986-87.*

*3 points. I/H*

### **ARH W 3150x. Art and Architecture of the Ancient Near East.**

Arts of the ancient cultures of Mesopotamia, Iran, Anatolia, Syria, and Palestine from the 4th millennium through the Achaemenid period in the late first millennium B.C.—U. Calmeyer.

*3 points. M W 6:10-7:25. I/H*

### **ARH V 3201x. Arts of China.**

Survey of Chinese art from Neolithic to the last dynastic period of Ch'ing, with emphasis on bronzes, Buddhist art, and great landscape painting of the Sung and later periods; arts of Central Asia and India as they affect the arts of China.—M. Wong-Gleysteen.

*3 points. Tu Th 6:10-7:25. I/H.*

### **ARH V 3203y. Arts of Japan.**

Survey of the development of Buddhist art and architecture in Japan as they were introduced from China, including the arts of later periods with emphasis on the formation of indigenous art forms such as narrative scroll-painting, decorative screens, and wood-block prints.—Instructor to be announced.

*3 points. Tu Th 4:10-5:25. I/H*

### **ARH W 4127x. History of Indian Art.**

Commencing with the cities of the Indus civilization in the third millennium BC, this wide-ranging survey will take us through the history of Buddhist, Hindu, and Islamic monuments of the Indian subcontinent. The arts of sculpture and painting are highlighted, and the art of adjoining areas such as Nepal and Sri Lanka is considered.—V. Dehejia.

*Not offered in 1986-87.*

*3 points. I/H*

### **ARH V 3245y. Art and Architecture of Greece in the Bronze Age.**

A survey of the art on Crete, the Greek mainland and Cyprus, from the earliest times through the Bronze Age, with an emphasis on architecture, wall-painting and painted pottery.—B. Cohen.

*3 points. Tu Th 2:40-3:55.*

### **ARH V 3247x. Greek Mythology in Ancient Art and Literature.**

An analytic and comparative survey of major Greek myths in terms of their application and representation in Classical literature and art.—B. Cohen.

*3 points. Tu Th 4:10-5:25.*

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## **ARH V 3248x. Greek Art and Architecture.**

Examination of the principal monuments and themes of Greek art in sculpture, painting, architecture, and city planning from the Mycenaeans to the Roman conquest.—R. Brilliant.

*Hours to be arranged.*

*3 points.*

*I/H*

## **ARH BC 3351x. Early Christian and Early Medieval Art.**

The origins of Christian art and architecture before Constantine and the subsequent development of architecture, sculpture and painting under the patronage of church and state in Western Europe from the 4th through the 11th century.—J. Rosenthal.

*3 points. M W 2:40-3:55.*

*I/H*

## **ARH BC 3352y.**

### **Art of the Later Middle Ages.**

Architecture, sculpture, and painting in the Romanesque and Gothic periods, with emphasis on the French contributions.—S. Murray.

*3 points. M W 2:40-3:55.*

*I/H*

## **ARH W 3400x.**

### **Italian Renaissance Painting.**

The work of the major masters who flourished in the 15th and early 16th centuries with special emphasis given to Masaccio, Piero della Francesca, Leonardo da Vinci, Giovanni Bellini, Giorgione, Titian and Michelangelo.—J. Beck.

*Not offered in 1986-87.*

*3 points.*

*I/H*

## **ARH W 3420y. Italian Sculpture during the Renaissance.**

Survey of developments from the 13th to the 16th century with special emphasis given to the art of Nicola Pisano, Giovanni Pisano, Quercia, Donatello, and Michelangelo.—J. Beck.

*3 points. Tu Th 6:10-7:25.*

*I/H*

## **ARH V 3437y. Italian Painting of the Sixteenth Century.**

The styles and significance of painting in Italy, with discussion of the concepts of High Renaissance and Mannerism. Emphasis on major figures.—D. Rosand.

*Not offered in 1986-87.*

*3 points.*

*I/H*

## **ARH BC 3661x. European Architecture from the Renaissance to 1700.**

Development of Renaissance and Baroque architecture in Italy, France, Germany, and England from the 15th century to 1700. Architects studied include Brunelleschi, Bramante, Michelangelo, Delorme, Cortona, Borromini, François Mansart, Hardouin-Mansart, Inigo Jones, and Wren.—D. Nyberg.

*3 points.*

*Tu Th 2:40-3:55.*

*I/H*

## **ARH BC 3669x.**

### **French Architecture 1500-1800.**

The cohesive tradition of French architecture, with major emphasis on Delorme, Salomon de Brosse, Lemercier, Mansart, Le Vau, Perrault, Hardouin-Mansart, Meissonnier, Boffrand, Servandoni and Soufflot, Gabriel and Boullée.—D. Nyberg.

*3 points. Tu Th 10:35-11:50.*

*I/H*

## **ARH W 4545y. The Georgian Town.**

The classical English city in the 18th century, varying from London itself to trading cities like Liverpool to resort towns like Bath, with emphasis on life in the town and town-house and opening up the town to the country.—M. Girouard.

*3 points.*

*W 11:00-12:50 plus 1:10-2:00 for undergraduates.*

## **ARH BC 3670y. European and American Architecture from the Eighteenth Century to 1900.**

Development of 18th-century architecture in Europe and America; interaction of historical styles and new structural techniques in the 19th century.—D. Nyberg.

*3 points. Tu Th 2:40-3:55.*

*I/H*

## **ARH W 4624x. American Painting, 1760-1900.**

A consideration of some of the principal ideas behind the American painting tradition, with special attention to varying concepts of realism and idealism and to correspondences in philosophy, science, and literature.—B. Novak.

*3 points. Tu Th 10:35-11:50.*

## **ARH V 3748y. Eighteenth Century Art in Europe.**

From Watteau and Tiepolo to David and Goya. Emphasis on new styles and subjects appearing between 1750 and 1800 and their relation to the contemporary cultural and social background.—A. Staley.

*3 points. Tu Th 4:10-5:25.*

*I/H*



# Art History

## **ARH W 3600x. Nineteenth Century Art.**

Painting and sculpture in Western Europe from 1789-1900; Neoclassic, Romantic, Realist, Impressionist, and Post-Impressionist movements.—A. Staley.

*3 points. M W 4:10-5:25. I/H*

## **ARH W 3650y. Twentieth Century Art.**

Major trends and sources of 20th century painting, sculpture and architecture with emphasis on understanding the cultural environment and related developments.—R. Crone.

*3 points. M W 4:10-5:25. I/H*

## **ARH BC 3678x. Modern Art:**

### **The Avant-gardes, 1890-1930.**

Formation of the avant-garde art groups in Europe from the Symbolists to the Surrealists, paying particular attention to the ways avant-garde art functioned in a newly modernized industrial culture. Short films will be shown.—M. Nesbit.

*Not offered in 1986-87.*

*Fee for films: \$5.00.*

*3 points. I/H*

## **ARH BC 3679y. Modern Art:**

### **Modernism and the Mass Media, 1930-the Present.**

The development of modernist painting in Europe and America from 1930 to the present with a study of the contemporary developments in film, photography and the mass media image. Analysis of the two levels of culture and their exchanges, including the consequences for the criticism and theory of the image. Avant-garde and Hollywood feature-length films will be shown each week.—M. Nesbit.

*Not offered in 1986-87.*

*Fee for films: \$30.*

*3 points. I/H*

## **ARH F 3681y. Museum Studies:**

### **French Prints and Illustrated Books from Manet to Matisse.**

Masters' prints are discussed in terms of subject matter, techniques, and stylistic development. Firsthand study of originals in the Metropolitan Museum's collection with attention to connoisseurship.—C. Ives.

*Enrollment limited to 15 students.*

*3 points. Tu 5:30-8:00. I/H*

## **ARH C 3833x. Modern Architecture.**

Major currents in European and American architecture and city planning, 1789 to the present. Attention to major theoretical statements, sociopolitical content, and the evolution of the architectural profession.—B. Bergdoll.

*3 points. M W 12:00-1:15.*

## **ARH W 4624x.**

### **American Painting 1760-1900.**

Principal ideas behind the American painting tradition with special attention to varying concepts of realism and idealism and to correspondences in philosophy, science and literature.—B. Novak.

*3 points. Tu Th 10:35-11:50. I/H*

## **SEMINARS**

Seminars have limited enrollment. Permission of the instructor is required for admission to all Barnard and Columbia seminars. In addition, it is strongly recommended that students seeking admission to a seminar have previously had a lecture course in the area. Students must sign up for Columbia seminars at 826 Schermerhorn.

## **ARH C 3933x. Medieval Art at the Cloisters.**

Most meetings at the Cloisters. Consult departmental office for location of first meeting.—J. Dodds.

*Prerequisite: Art History 3352y or the equivalent. 4 points. F 11:00-12:50. I/H*

## **ARH BC 3953y. The Art of Medieval Manuscript Illumination.**

Principal forms of decoration and illustration in medieval manuscripts, including examination of original works in collections in New York City.—J. Rosenthal.

*Hours to be arranged.*

*4 points. I/H*

## **ARH G 8329x. Monasticism and Monastic Art.**

An investigation of monasticism as a way of life and its influences on the arts of the middle ages, including architecture, sculpture, and painting.—J. Rosenthal.

*3 points. W 11:00-12:50.*

## **ARH G 8337x. Gothic Painting.**

Problems in manuscript illumination and wall painting in France and England in the 13th and 14th centuries.—J. Rosenthal.

*3 points. W 11:00-12:50.*

## **ARH C 3974x.**

### **Seminar in Prints and Drawings.**

Technique, function, and stylistic development in Renaissance and Baroque drawings and prints. Students study originals at the Metropolitan Museum of Art and other collections.—D. Wolfthal.

*Not offered in 1986-87.*

*4 points.*

# Art History

## ARH BC 3977x.

### **Modernism and Sexuality: The Problem of Gender in Matisse and Picasso.**

A study of the problem of the perception and representation of the female image, especially the nude, in modern art, concentrating on the work of Matisse and Picasso.—M. Nesbit.  
*Prerequisite: Art History 3678x or 3679y, or permission of instructor.*

*Not offered in 1986-87.*

4 points.

I/H

## ARH BC 3996y. Arts of the Rococo.

Painting, sculpture, architecture and the decorative arts of the first half of the 18th century in light of the international culture of Europe. Examples: Watteau, Chardin, Meissonnier, Boffrand, Specchi, Neumann.—D. Nyberg.

*Not offered in 1986-87.*

4 points.

I/H

## ARH BC 3971x. Theories of Photography in the Twentieth Century.

A survey of the major theories of photography in Europe and America, and an examination of their relation to one another, as well as their relevance to photographs.—M. Nesbit.

*Prerequisite: Art History 3678x or 3679y desirable.*

*Not offered in 1986-87.*

4 points.

I/H

## ARH BC 3982y. The Literature of Art.

Study of literary sources used in art historical research: artists' letters, journals and treatises (by Leonardo, Reynolds, Delacroix, Van Gogh, up to the present), contemporary biographies (Vasari), ideas and writings of leading critics and scholars (Baudelaire, Ruskin, Huizinga, Wolfflin, Worringer, Berenson, Fry, Panofsky, Gombrich, Read, Malraux, Kubler, Sontag).—B. Novak.

*Enrollment limited to 16 students. Permission of the instructor required.*

4 points. W 11:00-12:50.

I/H

## ARH W 3975y. Portraiture.

The motif of portraiture in Western art from antiquity to modern times. Discussion of principal motifs, scenes and means of expression. Short papers and reports, museum visits.—R. Brilliant.

4 points. Th 2:10-4:00.

## ARH BC 3985x.

### **Introduction to Connoisseurship.**

Factors involved in judging works of art, with emphasis on paintings; materials, deterioration, damage, restoration; attribution;

replicas, copies, imitations, and fakes; questions of relative quality. Meetings at the Metropolitan Museum of Art and the Pierpont Morgan Library.—D. Freedberg.

*Enrollment limited to 10 senior majors. Permission of the instructor required.*

4 points.

Hours to be arranged.

I/H

## ARH BC 3986y. Art Criticism.

Workshop in writing criticism. Short weekly assignments on such matters as language, experience, narrative and the object; close examination of process. Students write art criticism based on their gallery visits and refer to current and previous criticism.—B. O'Doherty.

*Enrollment limited to 15 students.*

4 points. M 10:00-12:00.

I/H

## ARH C 3968y. Still-Life Painting, 1850-1900.

Emphasis will be on Manet, Cézanne, Gauguin and Van Gogh.—T. Reff.

4 points. M 2:10-4:00.

## ARH C 3990y. The Literature of Modern Architecture.

Major theorists and writers on architecture from Winckelmann to the present. Distinctions of genres in architectural writing: treatises, manuals, criticism, histories. Major figures to be discussed include Pugin, Ruskin, Viollet-le-Duc, Wright, Le Corbusier, Venturi and Rossi.—B. Bergdoll.

4 points. F 2:10-4:00.

I/H

## ARH BC 3993x. Visionary Architecture, 1700 to the Present.

Seminar topics chosen from among the many influential architect-dreamers affecting architectural works of Europe and America. Examples: Boullée, Gaudi, Sant-Elia, Le Corbusier, Ferriss, Wright, Tatlin, Safdie, Soleri, Kahn.—D. Nyberg.

4 points. F 11:00-12:50.

I/H

## ARH BC 3998y. Social and Political Functions of Architecture.

Religious architecture, funeral monuments, the architecture of kingship and the French and American republics.—D. Nyberg.

4 points. F 11:00-12:50.

I/H

## ARH BC 3999x, BC 3999y.

### **Independent Research for Seminars.**

Independent research, primarily for the senior essay, under a chosen faculty adviser and with the chairman's permission.—Staff.

4 points. Hours to be arranged.

I/H



# Program in the Arts

Office: 204 Barnard Hall Annex

Telephone: 280-2952

This program is supervised by the Committee on the Program in the Arts:

**Professor of Art History**

Barbara Novak

**Professor of English (Writing)**

Barry Ulanov (Chairman)

**Professor of Music**

Hubert Doris

**Associate Professor of Dance**

Sandra Genter

**Associate in Theatre**

Luz Castaños

**Program Coordinator**

Deborah Loomis

**Advisers for the Concentrations**

Dance Janet Soares, 202 Barnard Hall Annex

Music Hubert Doris, 409 Milbank Hall

Theatre Luz Castaños, 230 Milbank Hall

Visual Arts Susan Crile, 305 Barnard Hall

Writing Barry Ulanov, 408D Barnard Hall

The Program in the Arts is offered for a limited number of students who are gifted in one of the performing or studio arts and who wish both to continue the development of their skills and to obtain a liberal education. It is designed as an interdisciplinary major in the arts with concentration in one particular art. The program offers a general introductory course, a junior colloquium, and a senior seminar, as well as directed work in a field of concentration such as visual arts studio, music as a performing art, the dance in all its aspects, theatre as a performing art or as a discipline of literary scholarship, and writing in all its branches.

The Program draws upon the ample resources in the arts which New York City affords, both in opportunities for majors to study with master teachers and in bringing artists to the campus to work with students. Attendance at concerts and dance performances and visits to museums and galleries in the city allow a continuing interaction with the arts.

## REQUIREMENTS FOR THE MAJOR

Students are normally admitted to the Program in the Arts in their sophomore year, but freshmen who look forward to entering this major are strongly advised to seek the counsel of advisers as early as possible in shaping their programs so as to include courses in at least two arts other than that in which they expect to concentrate. Recommended courses include: Art History BC 1001, BC 1002; Dance BC 2566; English BC 3103, BC 3104, etc.; English BC 3129; and Music BC 1001-BC 1002. Admission is based upon application to be made before March 15 of the sophomore year. Applicants provide supporting evidence of their individual skills. There are broad general requirements and special ones in each of the disciplines, but each student's program is shaped individually.

Students accepted as majors may take classes with artist teachers in New York City.

Each student is required to take the three courses offered by the Program:

Arts BC 3031

Arts BC 3351

Arts BC 3591

*Imagery and Form in the Arts*

*Junior Colloquium and*

*Senior Seminar*

# Program in the Arts

In lieu of a senior thesis, majors in the Program offer an equivalent demonstration of mastery in the discipline: dancers present concerts; musicians perform solo recitals; theatre majors work as actors, designers, directors, or in a combination of these in a theatrical presentation; writers submit portfolios of stories or poems or both; visual artists hang shows of their work.

Requirements of the various concentrations within the Program are outlined in the following lists. A student should consult with the faculty member on the Committee who is responsible for the area in which her interest lies.

## REQUIREMENTS FOR THE MINOR

No minor is offered in the Program in the Arts.

## COURSES OF INSTRUCTION

### PIA BC 3031x.

#### **Imagery and Form in the Arts.**

The operation of imagery and form in dance, music, theatre, visual arts, and writing; students are expected to do original work in one of these arts.—Instructor to be announced. *3 points. M 2:10-4:00. Conference hour to be arranged.*

### PIA BC 3351y. Junior Colloquium.

An interdisciplinary consideration of a crucial period in the history of the arts. The interrelationship of the arts, their separate and common critical vocabularies, their borrowings from each other, their defining differences. Consideration of style in the various arts and major figures in the period whose innovations in style or inventions in technique led to new forms. Special attention to developing skills in writing and discussion and equipping students to deal with the special problems that accompany the examination of art. Theme for 1986-87: The arts in the Middle Ages.—H. Doris, J. Roosevelt, and guests. *4 points. M 2:10-4:00.*

### PIA BC 3591x. Senior Seminar.

Contemporary issues in the arts, with reports and projects leading to a thesis or performance. Participating students are encouraged to work in groups, whenever their interests coincide or the logic of performance suggests such collaboration. Theme for 1986-87: Cubism.—J. Soares and guests. *4 points. Tu 4:10-6:00.*

## STUDIO COURSES IN ART

Studio courses, 2003x, 2004y, 2005x, 2006y, 2007x, 2008y, are given at Barnard. Enrollment is limited and students must sign up. Other studio courses are given at the School of the Arts, in Dodge Hall, and students may register for these only with written permission of the departmental representative. Classes are limited to 18 students. Students who wish to enter the Columbia courses are required to

apply for space in 305 Dodge Hall during the preregistration period prior to each term. Model fees range from \$20.00 for any two-point course to \$45.00 for a three-point course in printmaking. For students not majoring in the Program in the Arts (Visual Arts), a maximum of four courses of studio work may be credited; each of the second two must be matched with an art history course to be credited.

### PIA BC 2003x, PIA BC 2004y.

#### **Studio Painting.**

Studio courses in painting with acrylic and oil; supplementary instruction in drawing and the use of color. Emphasis on individual development.—A. McCoy. *2 points. Th 2:10-6:00.*

### PIA BC 2005x, PIA BC 2006y, PIA BC 2007x, PIA BC 2008y. Painting.

Basic skills developed by setting specific tasks to be executed in painting. Previous art training is not necessary.—S. Crile. *2 points. W 2:10-6:00.*

#### **Courses required for the Dance concentration:**

Dance BC 2561, BC 2562.

*Dance Workshop I.*

Dance BC 2563.

*Form in Dance Composition.*

Dance BC 2564.

*Content in Dance Composition.*

Dance BC 2565, BC 2566.

*History of Dance.*

Dance BC 2567.

*Fundamentals of Music for Dancers.*

Dance BC 3571, BC 3572.

*Dance Workshop II.*

Dance BC 3574.

*Seminar on Contemporary Choreographers and Their Works.*



# Program in the Arts

## **Courses required for the Music concentration:**

Any two of the following:

Music V3124. *History II.*

Music V3125. *History III.*

Music V3126. *History IV.*

Plus the following courses if the student is not exempted from them upon entrance into the Program:

Music V2100-V2101. *Theory I and II.*

Music V2300-V2301. *Theory III and IV.*

Music V2303-V2305. *Theory V and VI.*

## **Courses required for the Theatre concentration:**

English BC 3129 and BC 3130.

*History of the Theatre: Origins to the Restoration.*

*Modern Theatre: The 18th Century to the Present.*

English BC 3133.

*Play Production: Basic Design for the Theatre.*

English BC 3131 and BC 3132.

*The Contemporary Theatre.*

English BC 3135 and BC 3136.

*Actor's and Director's Interpretation of Dramatic Literature.*

Dance Technique. One semester. (Dance composition may be substituted upon evidence of adequate prior training.)

Three courses in dramatic literature drawn from the following:

Class. Lit. V 3123.

*Greek Drama and its Influences.*

English BC 3163 or BC 3164.

*Shakespeare.*

English BC 3186.

*Modern Drama.*

French BC 3034.

*The French Theatre of the Seventeenth Century.*

Greek V 3305.

*Tragedy.*

German BC 3025.

*German Prose and Drama from Buchner to Nietzsche.*

German BC 3026.

*Modern German Theater.*

## **Courses required for the Visual Arts concentration:**

Art History BC 1001, BC 1002.

*Introduction to the History of Art.*

Art History BC 3678, BC 3679.

*Modern Art.*

Art History BC 3986.

*Seminar in Art Criticism.*

A minimum of four studio courses, to be selected from offerings listed in the Barnard catalogue.

## **Courses required for the Writing concentration:**

Four courses selected from the following:

English BC 3103, BC 3104.

*Structure and Style.*

English BC 3105, BC 3106.

*The Craft of Writing.*

English BC 3107, BC 3108.

*Experiments in Writing.*

English BC 3111, BC 3112.

*Story Writing.*

English BC 3113, BC 3114.

*Dramatic Writing.*

English BC 3193.

*Literary Analysis and Evaluation.*

Plus two advanced courses from any of the College departments of language and literature.

# Biological Sciences

*Department Office: 1203 Altschul Hall*

*General Biology Course Office: 911 Altschul Hall*

*Telephone: 280-2437*

*Telephone: 280-2153*

## **Professors**

Philip V. Ammirato, Patricia L. Dudley (Chairman)

## **Associate Professors**

Julia Chase, Paul E. Hertz, Frederick E. Warburton

## **Assistant Professor**

Dennis Stevenson

## **Laboratory Director**

Alice M. Walrath

Other officers of the University offering courses listed below:

## **Professors**

Walter J. Bock, William A. Corpe, Eric Holtzman, Cyrus Levinthal, Eduardo R. Macagno, Alberto L. Mancinelli, Burton Singer, Alexander A. Tzagoloff, Geoffrey L. Zubay

## **Associate Professors**

Darcy B. Kelly, Carol L. Prives, Catherine L. Squires

## **Assistant Professors**

Susan DeRiemer, Mark B. Dworkin, L. Eckhardt, John D. Harding, Michael S. Levine, Diane M. Robins

## **Lecturer**

Linda L. Spielman

Biology is a field which explores the structure, function, interactions, and evolution of living organisms. It includes the study of communities, populations, whole organisms, organs, tissues, cells, and subcellular components. Some of the most exciting issues of the day, such as those relating to ecological problems, genetic engineering, and environment and health, require a strong background in biology. At Barnard, courses cover the fine structure, development and physiology of cells, tissues, and organs; the embryology, behavior and structure of organisms; and the ecology and evolution of populations.

Many students specialize in this field in preparation for a career in medicine, dentistry, public health, or nutrition, while others anticipate graduate work in one of the many subfields of biology leading to a teaching and research career. Still others plan futures as biological or medical librarians, scientific writers, illustrators or photographers, researchers in industry or government, or in environmental law.

Equipment available at Barnard includes an RCA 4B transmission electron microscope and an ISI SX-40 scanning electron microscope with accessory equipment, photomicrographic and darkroom instruments, IBM microcomputers, a scintillation counter, an ultracentrifuge, an automated oxygen analyzer, a chemostat, and physiographs. The facilities include constant temperature rooms, darkrooms, an animal care facility, and a greenhouse. A Biology Club, originated and governed by students and sponsored by the department, presents seminars and film programs of interest.

Students are encouraged to do summer work in biological laboratories or field stations. Financial assistance for such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund, the Herbert Maule Richards Fund, or the Donald and Nancy Ritchie Fund. The department maintains a folder of summer courses and research stations, and information on available funds can be obtained from the department chairman. Support for participation or assistance in the research of the Barnard faculty is available at times from research grants and such programs as grants for Women in Science and Technology.

Biology BC 1101-BC 1102, or its equivalent, is a prerequisite for upper level courses in the department. Students who have passed the Advanced Placement examination



# Biological Sciences

with a grade of 4 or 5 can be exempted from the general course and may receive course credit if they present evidence of satisfactory laboratory experience. Students who receive 6 points of Advanced Placement course credit may not receive duplicate credit for General Biology. Students who receive only 3 points of Advanced Placement credit may register and receive credit for one term of General Biology with laboratory. Students should consult with the department chairman before entering courses for which General Biology is a prerequisite. Students may also take courses at Columbia University, including graduate courses; they should consult the Bulletin of the Graduate School of Arts and Sciences and their advisers before planning to take such courses.

## REQUIREMENTS FOR THE MAJOR

Students are encouraged to make a balanced selection of courses for the major, but no special concentration or track is required. Majors should consult their departmental advisers who are chosen at the end of the sophomore year.

A minimum of nine courses in biology (of which six must include laboratory work) and two courses in chemistry with laboratory (including organic chemistry) are required for the major. To ensure a balanced preparation in biology, at least one course must be selected from each of five of the following six categories:

1. Biochemistry, Molecular Biology: C 3501, C 3064, W 3073, Chemistry BC 3355, Biochemistry G 4021
2. Genetics: BC 3105, C 3032
3. Cell Biology: BC 3110, BC 3128, W 3040, W 3041
4. Anatomy, Physiology, Development: BC 3109, BC 3111, BC 3116, BC 3124, BC 3134, W 3002, W 3022
5. Organismic Biology: BC 3103, BC 3107, BC 3115
6. Population Biology: BC 3108, BC 3119, BC 3146, W 3094

Courses counting for the laboratory requirement are listed below. There is a laboratory fee of \$35 per biology laboratory course:

Biology BC 1101-BC 1102	<i>General Biology</i>
Biology BC 3103	<i>The Biology of Plants</i>
Biology BC 3105 with Biology BC 3114	<i>Introduction to Genetics with Laboratory in Genetics</i>
Biology BC 3107	<i>Invertebrate Zoology</i>
Biology BC 3109	<i>Vertebrate Embryology</i>
Biology BC 3110	<i>Microbiology</i>
Biology BC 3111	<i>Morphology of Vascular Plants</i>
Biology BC 3116 with Biology BC 3118	<i>Mammalian Physiology with Laboratory in Physiology</i>
Biology BC 3119	<i>Population and Community Ecology</i>
Biology BC 3124	<i>Plant Development</i>
Biology BC 3128 with Biology BC 3130	<i>Biology of Cells and Tissues with Laboratory in Cell and Tissue Biology</i>
Biology BC 3134 with Biology BC 3136	<i>Plant Physiology with Laboratory in Plant Physiology</i>
Biology BC 3146 with Biology BC 3148	<i>Environmental Microbiology with Laboratory in Environmental Microbiology</i>
Biology BC 3151-BC 3152	<i>Quantitative Field Biology</i>
Biology BC 3598 or Biology BC 3599	<i>Problems in Biology (if it includes laboratory work)</i>
Chemistry BC 3355	<i>Biochemistry Techniques Laboratory</i>

Columbia biology courses with laboratory  
Laboratory courses from other colleges (with special permission of the chairman).

Participation in a special project, Biology BC 3598 or BC 3599, is highly recommended. These courses give the student an opportunity to experience independent laboratory research. Both intradepartmental (Biology BC 3599) and extradepartmental (Biology BC 3598) projects require the approval of a member of the faculty in the department, who serves as sponsor (intradepartmental projects) or as cosponsor

# Biological Sciences

(extradepartmental projects). All projects must involve planning, experimentation and interpretation of results and all require a formal report, written in journal style. All extradepartmental projects receive pass or fail grades; intradepartmental projects may be graded P or F, or by a letter grade, at the option of the sponsor. Only one term may be counted toward the major.

The Graduate Record Examination is used as the major examination. The scores are also used, together with grade point averages and faculty recommendations, to determine the recipients of departmental honors.

A year of chemistry with laboratory, including one term of organic chemistry, is required for the biology major (Chemistry BC 1601, *General Chemistry*; BC 3328 and BC 3230, *Organic Chemistry I*). Entering freshmen who plan to major in biology are encouraged to take these chemistry courses in addition to Biology BC 1101 and 1102 in their first year. Some upper level biology courses require a second term of organic chemistry (Chemistry BC 3231, *Organic Chemistry II*). Students interested in attending graduate or professional schools should take additional chemistry courses (Chemistry BC 3232, *Intermediate General Chemistry*; BC 3338, *Quantitative and Instrumental Techniques Laboratory*) and, in addition, one year each of calculus and physics. Graduate work generally requires a knowledge of one or more modern foreign languages.

Students interested in the health sciences should register with the Pre-Professional Office in their freshman or sophomore year and must take the MCAT exam in their junior year.

## REQUIREMENTS FOR THE MINOR

A minor in biology must have one year of general biology (two terms with laboratory) and three more advanced courses in biology, two of which must include laboratory work. Physics, Psychology, Chemistry, and Biochemistry majors need take only one advanced laboratory instead of two.

## COURSES OF INSTRUCTION

### **BIO BC 1101x-BIO BC 1102y. General Biology.**

Nature, development, and implications of biological knowledge; molecular basis of life; structure and function of cells; energy relations; molecular, Mendelian, and population genetics; development, anatomy and physiology of organisms; evolutionary theory and systematics; physiological and population ecology; animal behavior; dynamics of ecosystems; human biology.—1: P. Ammirato; 2: P. Hertz.

*Enrollment in laboratory sections limited to 16 students per section.*

*4½ points.*

*Lecture M W F 9:00.*

*Laboratory Tu or Th 9:00-11:50, F 10:00-12:50, M, Tu, W, or Th 1:10-4:00 or 2:10-5:00.*

### **BIO BC 3103y. The Biology of Plants.**

Evolutionary, morphological, physiological, and ecological aspects of plants, with some attention to their historical, esthetic, and

economic importance.—D. Stevenson.

*Prerequisites: BC 1101-BC 1102 or the equivalent. Enrollment limited to 48 students.*

*5 points.*

*Lecture Tu Th 10:35-11:50.*

*Laboratory Tu or W 1:10-5:00.*

### **BIO BC 3105x. Introduction to Genetics.**

Mendelian and quantitative genetics of plants, animals, and man; segregation; recombination; measurement of linkage, and genetics of continuous variation; cytogenetics; developmental genetics; population genetics and evolution. Human genetics emphasized where it exemplifies general principles.—F. Warburton.

*Prerequisites: BC 1101-BC 1102 or the equivalent, and calculus or statistics.*

*Students interested in laboratory see BC 3114. 3 points.*

*Lecture Tu Th 10:35-11:50, plus one hour recitation and demonstration to be arranged.*



# Biological Sciences

## **BIO BC 3106y. Evolution.**

Modern theory of evolution: genetic and ecological mechanisms that adapt organisms to their environments and increase the diversity of species.—F. Warburton.

*Prerequisite:* BC 1101-BC 1102 or the equivalent.

*Alternate years.* Offered in 1987-88.

3 points.

## **BIO BC 3107y. Invertebrate Zoology.**

Invertebrate animals: comparative fine and gross structure, development, physiology and behavior; emphasis on marine invertebrates. Laboratory-demonstration includes a survey of major groups and an individual project on the ultrastructure, physiology, or ecology of an invertebrate animal.—P. Dudley.

*Prerequisite:* BC 1101-BC 1102 or the equivalent.

*Enrollment limited to 20 students.*

*Alternate years.* Offered in 1986-87.

5 points.

*Lecture M W F 11:00.*

*Laboratory/Demonstration W 1:10-5:00.*

## **BIO BC 3108y. General Ecology.**

Effects of selected physiochemical environmental factors on organisms in populations and communities; characteristics of major terrestrial and aquatic ecosystems; human influences on the environment.—P. Dudley.

*Prerequisite:* BC 1101-BC 1102 or the equivalent.

*A course in general chemistry is recommended.*

*Alternate years.* Offered in 1987-88.

3 points.

## **BIO BC 3109x. Vertebrate Embryology.**

Anatomy, morphogenesis, and differentiation of embryos of vertebrate animals: gametogenesis, fertilization, cleavage, gastrulation, and the morphogenetic and physiological events which occur during embryonic histogenesis and organogenesis. The laboratory includes comparative studies of the anatomy of embryos and experimental analysis of development.—Instructor to be announced.

*Prerequisite:* BC 1101-BC 1102 with laboratory, or the equivalent.

*Enrollment limited to 40 students.*

5 points. *Lecture M W F 9:00.*

*Laboratory M or Tu 1:10-5:00.*

## **BIO BC 3110y. Microbiology.**

Survey of procaryotic and selected eucaryotic microorganisms; structure and function of cells; physiology and metabolism of growth; inhibition of growth and activity; genetic mechanisms; molecular interrelationships; aspects of pathogenicity and immunity to

disease.—W. Corpe.

*Prerequisites:* A year of college biology and general chemistry.

*Enrollment limited to 24 students.*

*Alternate years.* Offered in 1987-88.

5 points.

## **BIO BC 3111x. Morphology of Vascular Plants.**

An analysis of form and structure in the higher plants. Differentiation, ultrastructure and anatomy of cells, tissues and organs. Evolution and comparative morphology studied from the viewpoint of both fossil and extant representatives. Laboratory utilizes various histological techniques including fossil peels.—D. Stevenson.

*Prerequisites:* BC 1101-BC 1102 or the equivalent; BC 3103.

*Enrollment limited to 24 students.*

*Alternate years.* Offered in 1987-88.

5 points.

## **BIO BC 3113x. Biogeography.**

Plant and animal distribution: the effects of biological introductions via human activities, the major vegetation zones, mechanisms of dispersal, and utilization of the biota including the effects of exploitation on species and habitats.—D. Stevenson.

*Prerequisites:* BC 1101-BC 1102 or the equivalent (or one year of any other laboratory science and permission of the instructor).

*Alternate years.* Offered in 1986-87.

3 points. *Tu Th 9:10-10:25.*

## **BIO BC 3114y. Laboratory in General Genetics.**

Exercises in the use of *Drosophila*, *Neurospora*, bacteria and bacteriophages to illustrate basic genetic principles and to investigate population genetics, linkage and recombination, and biochemical genetics; techniques used in human genetics and cytogenetics.—F. Warburton.

*Prerequisite:* BC 3105 or the equivalent.

*Enrollment limited to 32 students.*

2 points. *Tu or W 1:10-5:00.*

## **BIO BC 3115x. Vertebrate Zoology.**

A systematic survey of the Phylum Chordata including fossil history, biogeography, systematics, natural history, body architecture, energetics, locomotion, feeding, and behavior.—P. Hertz.

*Prerequisite:* BC 1101-BC 1102 or the equivalent.

*Alternate years.* Offered in 1987-88.

3 points.

# Biological Sciences

## **BIO BC 3116x. Mammalian Physiology.**

Physiology of major organ systems; function and control of circulatory, respiratory, digestive, excretory, endocrine, and nervous systems in animals; emphasis on higher vertebrates and man.—J. Chase.

*Prerequisites:* Three terms of biology and two terms of organic chemistry.

3 points. Tu Th 9:10-10:25.

## **BIO BC 3118x. Laboratory in Physiology.**

Physiographic recording of cardiac, respiratory and muscle function; small animal surgery; sterotaxic and histological confirmation of lesions. Additional laboratories in amphibian metamorphosis, enzyme kinetics, active transport, exercise physiology and renal function.—J. Chase.

*Corequisite or Prerequisite:* BC 3116.

*Enrollment limited to 32 students.*

2 points. Th or F 1:10-5:00.

## **BIO BC 3119x. Population and Community Ecology.**

Introduction to major concepts and issues in evolutionary ecology; emphasis on such topics as life history strategies, population growth, competition, predator-prey interactions, population regulation, species diversity, community organization, biogeography. Lectures integrate recent theory with observational and experimental data.—P. Hertz.

*Prerequisites:* A year of college biology, one of the following: BC 3103, BC 3107, BC 3110, or BC 3115, and permission of the instructor. Calculus is recommended.

*Enrollment limited to 16 students.*

*Alternate years. Offered in 1986-87.*

5 points.

*Lecture* Tu Th 10:35-11:50.

*Laboratory* Th 1:10-5:00.

## **BIO BC 3122y. Animal Behavior.**

Introduction to animal behavior: physiological bases of behavior (sensory systems, neurophysiology of behavior, appetitive and reproductive behavior), traditional ethological approaches to behavior (communication, dyadic behavior, territoriality, dominance and aggression) and evolution of behavior (behavior genetics, ecological correlates, social behavior).—J. Chase.

*Prerequisite:* One year of biology or one year of psychology.

3 points. Tu Th 9:10-10:25.

## **BIO BC 3124y. Plant Development.**

Processes of growth, differentiation and organization in plants; major morphogenetic events in the transition from zygote to flowering plant; hormonal and environmental effects and mechanisms of action. Laboratory utilizes whole plant, organ and cell cultures.—P. Ammirato.

*Prerequisites:* BC 1101-BC 1102 or the equivalent, and one semester of organic chemistry.

*Enrollment limited to 16 students.*

*Alternate years. Offered in 1986-87.*

5 points.

*Lecture* Tu Th 9:10-10:25.

*Laboratory* Th 1:10-5:00.

## **BIO BC 3126y. History of Biology.**

Growth of biological knowledge and ideas to the time of Darwin and Pasteur, and the paths leading to modern genetics, developmental biology, and evolutionary theory since then, in relation to concurrent developments in technology, medicine, and other sciences; religious, political and social influences on biological writings will be examined.—F. Warburton.

*Prerequisites:* BC 1101-BC 1102 or the equivalent, and one advanced biology course.

*Alternate years. Offered in 1986-87.*

3 points. Tu Th 10:35-11:50.

## **BIO BC 3128x. Biology of Cells and Tissues.**

Structural, molecular and physiological aspects of cells and tissues in vertebrate animals; light microscopic and electron microscopic studies of the structure of cell organelles and tissues; modern concepts of function.—P. Dudley.

*Prerequisites:* BC 1101-BC 1102 or the equivalent, and one advanced biology course. A year of chemistry, including organic chemistry, is required.

3 points. M W F 11:00.

## **BIO BC 3130x. Laboratory in Cell and Tissue Biology.**

Optional laboratory to be taken concurrently with BC 3128. Correlated light microscopic and electron microscopic analyses of the structure of tissues and organs of vertebrate animals; demonstrations and practice in histochemical, light microscopic and electron microscopic techniques.—P. Dudley.

*Corequisite or prerequisite:* BC 3128 or the equivalent.

*Enrollment limited to 16 students per laboratory.*

2 points. Tu or W 1:10-5:00.



# Biological Sciences

## **BIO BC 3134y. Plant Physiology.**

Processes of metabolism, nutrition, growth, and development of green plants: photosynthesis, respiration, nitrogen and intermediate metabolism, water and solute uptake and transfer, translocation, plant growth regulators, tropisms and nasties, photoperiodism, vernalization, dormancy, senescence and death.—P. Ammirato.

*Prerequisites:* BC 1101-BC 1102 or the equivalent, and one term of organic chemistry.

*Enrollment limited to 16 students.*

*Alternate years. Offered in 1987-88.*

*3 points.*

## **BIO BC 3136y. Laboratory in Plant Physiology.**

Determination of water potential and transpiration rates. Solute uptake and mineral deficiency studies. The Hill reaction, CO<sub>2</sub> compensation points and respiration rates. Extraction, separation and identification of amino acids, nucleic acids and plant hormones. Bioassay procedures with whole plants and cell cultures. Studies of phytochrome controlled germination and photomorphogenesis.—P. Ammirato.

*Corequisite or prerequisite:* BC 3134.

*Enrollment limited to 16 students.*

*Alternate years. Offered in 1987-88.*

*2 points.*

## **BIO BC 3146y. Environmental Microbiology.**

A study of the relationships between microorganisms and the human environment. The role of microorganisms in terrestrial and aquatic systems in relation to environmental quality. Examination of microbiologically catalyzed processes related to nutrient cycling, corrosion of metal and biodegradation of toxic materials. Evaluation of microbiological control measures in drinking water and food.—W. Corpe.

*Prerequisites:* A year of college biology and general chemistry and BC 3110 or the equivalent.

*Alternate years. Offered in 1986-87.*

*3 points. M W F 9:00.*

## **BIO BC 3148y. Laboratory in Environmental Microbiology.**

A study of the qualitative and quantitative methodology for study of microbial populations and processes in the environment. Experiments will be done on nutrient cycling, eutrophication, treatment of wastewater, and digestion of solid wastes.—W. Corpe.

*Corequisite or prerequisite:* BC 3146.

*Enrollment limited to 24 students.*

*Alternate years. Offered in 1986-87.*

*2 points. M 1:10-5:00.*

## **BIO BC 3151x-BIO BC 3152y.**

### **Quantitative Field Biology.**

An introduction to ecological theory and methods with an emphasis on hypothesis construction, experimental design, methods of field data collection, data analysis, and presentation of research results. Students will design and complete field projects, culminating in oral and written reports.—P. Hertz.

*Prerequisites:* BC 1101-BC 1102, one of the following: BC 3108, BC 3113, BC 3119, and permission of the instructor.

*Enrollment limited to 12 students.*

*Class meets first six weeks in Autumn Term and last six weeks in Spring Term.*

*Alternate years. Offered in 1987-88.*

*5 points per year (2.5 each semester).*

## **BIO BC 3593x-BIO BC 3594y.**

### **Research and Seminar in Biopsychology.**

Independent research under faculty supervision culminating in a research paper and oral presentation. Throughout the year, weekly seminars will be used to discuss research approaches, methodological difficulties, and data analysis.—Staff.

*Prerequisites:* Six of the required courses for the Biopsychology major.

*4 points. Hours to be arranged.*

## **BIO BC 3598x, BIO BC 3598y. External Studies in Biology.**

Research projects outside the department developed in consultation with an instructor who serves as cosponsor.—Staff.

*Prerequisite:* One year of general biology and permission of the instructor.

*4 points. Hours to be arranged.*

## **BIO BC 3599x, BIO BC 3599y. Individual Research in Biology.**

Independent work in the department to suit the needs of the student after consultation with the instructor.—Staff.

*Prerequisite:* One year of general biology and permission of the instructor.

*4 points. Hours to be arranged.*

## **BIO W 3002y. Introduction to Animal Structure and Function.**

W. Bock.

*Prerequisites:* One year each of biology and physics.

*6 points.*

*Lecture M W F 9:00.*

*Laboratory M Tu W 1:10-5:00 or M W 6:10-10:00.*

*(Two 4-hour laboratories required.)*

# Biological Sciences

## **BIO W 3005y. Central Nervous System Neurobiology.**

D.B. Kelley.

*Prerequisites: One year each of biology and chemistry.*

*Not offered in 1986-87.*

*3 points.*

## **BIO C 3006y. Project Laboratory in Neurophysiology and Neuroanatomy.**

E. Macagno and S. DeRiemer.

*Prerequisite: Biology W 3033 or G 4004.*

*5 points. Tu or Th 1:10-6:00 and additional hours to be arranged.*

## **BIO W 3022y. Developmental Biology.**

J. Harding.

*Prerequisite: One year of biology. At least one term of genetics or biochemistry is recommended.*

*3 points. M W F 11:00.*

## **BIO C 3046y. Project Laboratory in Eucaryotic Gene Expression.**

C.L. Prives and D.M. Robins.

*Prerequisite: One year of biology and the instructor's permission.*

*Not offered in 1986-87.*

*5 points.*

## **BIO C 3052x. Project Laboratory in Molecular Genetics.**

C. Squires.

*Prerequisite: One year of introductory biology and the instructor's permission.*

*5 points. Tu Th 1:10-5:00, plus additional hours to be arranged.*

## **BIO C 3055x. Project Laboratory in the Molecular Genetics of Drosophila.**

M. Levine.

*Prerequisites: One term of genetics and one term of either developmental biology or biochemistry.*

*5 points. Tu Th 1:10-5:00, plus additional hours to be arranged.*

## **BIO C 3064y. Molecular Genetics.**

G. Zubay.

*Prerequisite: C 1005 or the equivalent, and organic chemistry.*

*4 points. Tu Th 10:35-11:50.*

*Recitation: Tu or Th 12:00.*

## **BIO W 3073x. Cellular and Molecular Immunology.**

L. Eckhardt.

*Prerequisite: C 1006, W 3041, or F 1402.*

*3 points. Tu Th 10:35-11:50.*

## **BIO W 3094y. The Biosphere.**

A. Mancinelli.

*Prerequisites: An introductory course in both biology and chemistry, and the instructor's permission.*

*3 points. Tu Th 4:10-5:25.*

## **BIO C 3292y. Quantitative Modeling in Biology and Medicine.**

B. Singer and C. Levinthal.

*Prerequisites: One year each of calculus, biology, and chemistry, and the instructor's permission.*

*Not offered in 1986-87.*

*3 points.*

## **Biology-Chemistry BCH C 3501x.**

### **Biochemistry I: Structure and Metabolism.**

C. Levinthal and A. Tzagoloff.

*Prerequisites: C 1005 and one year of organic chemistry.*

*4 points. M W F 10:00, plus one hour recitation to be arranged.*

## **Biology-Chemistry BCH C 3512y.**

### **Biochemistry II: Molecular Biology.**

C. Prives and D. Robins.

*Prerequisites: C 1005 and one year of organic chemistry. Strongly recommended but not required: BCH C 3501.*

*3 points. Tu Th 9:10-10:25.*

Note: The following courses at Columbia College substantially overlap Barnard Biology offerings. They may be substituted for Barnard courses with the permission of the major advisers or the Barnard department chairman: BIO C 3032x, *Introduction to Genetics* (M. Dworkin); W 3033y, *Animal Physiology* (E. Macagno); W 3040x, *Laboratory in Cell and Developmental Biology* (L. Spielman); W 3041y, *Cell Biology* (E. Holtzman); W 3208x, *Introduction to Organismic and Evolutionary Biology of Animals* (W. Bock).



# Biopsychology

**Advisers: Julia Chase (Biological Sciences), Christina L. Williams (Psychology).**

The program in Biopsychology is jointly administered by the departments of Biological Sciences and Psychology. A major in Biopsychology aims to provide a strong background in the behavioral sciences for students who plan to pursue a Ph.D. in Biopsychology or Psychobiology and for whom research training is of prime concern. Students electing this track are exposed to basic courses in Biology and Psychology and advanced courses necessary for the study of behavior. All students engage in two semesters of independent research in the senior year.

The major examination consists of the Graduate Record Examination in either Psychology or Biology.

It should be noted that students may also arrange interdisciplinary programs by electing a major in either Psychology or Biological Sciences and a minor in the other discipline, or by planning a double major. There is no minor in Biopsychology.

## REQUIREMENTS FOR THE BIOPSYCHOLOGY MAJOR

Psychology BC 1001	<i>Introduction to Psychology</i>
Biology BC 1101-BC 1102	<i>General Biology with Laboratories</i>
Psychology BC 1609	<i>Statistics</i>
Psychology BC 1105	<i>Psychology of Learning with Laboratory</i>
Biology BC 3105 and BC 3114	<i>Introduction to Genetics with Laboratory</i>
Biology BC 3122	<i>Animal Behavior</i>
Psychology BC 1117 or BC 1119	<i>Physiological Psychology*</i>
Biology BC 3116/BC 3118	<i>Mammalian Physiology*</i>

\*One of these physiology courses must be taken with a laboratory.

Psych. BC 3593-BC 3594	<i>Research and Seminar in Biopsychology</i>
<i>or</i>	
Biology BC 3593-BC 3594	

Two advanced courses selected from *different* categories below:

I.	Biology W 3005	<i>Central Nervous System Neurobiology</i>
	Biology C 3006	<i>Project Lab in Neurophysiology and Neuroanatomy</i>
	Biology G 4004	<i>Biology of Nerve Cells</i>
	Biology G 4008	<i>Seminar on the Development of the Nervous System</i>
II.	Psychology BC 3154	<i>Hormones and Reproductive Behavior</i>
	Psychology BC 3169	<i>Developmental Psychobiology</i>
	Psychology BC 3376	<i>Infant Development</i>
III.	Biology BC 3108	<i>General Ecology</i>
	Biology BC 3119	<i>Population and Community Ecology</i>
	Biology BC 3151-52	<i>Quantitative Field Biology</i>
IV.	Psychology BC 3164	<i>Perception and Language</i>
	Anthropology W 3203	<i>Primate Behavior</i>
	Psychology BC 3374	<i>Theories of Learning</i>
V.	Biochemistry C 3501	<i>Biochemistry</i>
	Biochemistry G 4021	<i>General Biochemistry</i>
	Biology W 3041	<i>Cell Biology</i>
	Biology BC 3128	<i>Biology of Cells and Tissues</i>

## Cognate Courses

The following chemistry courses are required: BC 1601, BC 3328, and BC 3230. Students are encouraged to take additional courses in chemistry, physics, and math if they intend to apply to medical or graduate schools.

# Chemistry

Office: 607A Altschul Hall

Telephone: 280-8460

## Professors

Sally Chapman, Bernice G. Segal (Chairman)

## Associate Professors

Barry M. Jacobson, Leslie Lessinger<sup>1</sup>

## Assistant Professor

Shelley Weinstock

## Visiting Assistant Professor

Richard Friedman

## Lecturers

James Carter, Grace W. King, Clara Wu

## Associates

Barbara Goodstein, Paula Humphreys, Olympia Jebejian, Rosalyn Peller

<sup>1</sup>Absent on leave, 1986-87

Chemistry is the study of the nature of substances and their transformations. In a three-year sequence of core courses, a chemistry or biochemistry major gains familiarity with the basic areas of the field: inorganic, organic, physical, and analytical chemistry. In addition, she acquires sufficient skill in the laboratory so that she is prepared for independent research.

Students who have taken an Advanced Placement course in secondary school may be given advanced placement and credit with scores of 4 or 5, if they present evidence of satisfactory laboratory experience.

The laboratories of the department are modern and well-equipped both for course work and for independent projects. Students may undertake independent research projects under the guidance of members of the department during the academic year or the summer; some student work has been published in chemical journals. Opportunities are also available for undertaking research projects with members of the staff of one of the many medical schools or research institutions in New York City, as well as with the Columbia faculty.

Students wishing to fulfill the minimum two-year chemistry requirement for medical school should take Chemistry BC 1601, *General Chemistry*; Chemistry BC 3328, BC 3230, and BC 3231, *Organic Chemistry I and II* with laboratory; Chemistry BC 3232, *Intermediate General Chemistry*; and Chemistry BC 3338, *Quantitative and Instrumental Techniques Laboratory*.

Credit will not be given for any course below the 3000 level after completing Chemistry BC 3230 or its equivalent.

The laboratory fee covers the cost of non-returnable items, laboratory manuals, chemicals, and other consumable supplies, as well as reasonable breakage. In addition, students may be charged for excessive breakage.

## REQUIREMENTS FOR THE MAJOR

Two majors are offered by the department, in chemistry and biochemistry. The same major examination is required for both chemistry and biochemistry; there is no senior essay required for either.

### Chemistry

A student who is interested in chemistry should consult any member of the department during her freshman year. In the first year she should take Chemistry BC 1601, BC 3328, and BC 3230, and start or continue the study of calculus. It is then possible for her to fulfill the basic requirements for the major in three years and to take advanced courses in the senior year. After completing the undergraduate curriculum, students are encouraged to take graduate courses in chemistry or biochemistry at Columbia, and to undertake independent research projects.

Courses required for the major are:

Chemistry BC 1601  
Chemistry BC 3328,  
BC 3230, BC 3231

*General Chemistry*

*Organic Chemistry I with laboratory and II*



# Chemistry

Chemistry BC 3335

Chemistry BC 3236

Chemistry BC 3340

Chemistry BC 3261

Chemistry BC 3264

Chemistry BC 3365,  
BC 3368

(For BC 3365 and BC 3368, Chemistry BC 3370 may be substituted.)

Physics V 1103-V 1104

or

Physics C 1006-C 1007

Mathematics

*Modern Techniques of Organic Chemistry  
Laboratory*

*Introductory Thermodynamics and  
Kinetics*

*Quantitative and Instrumental Techniques  
Laboratory*

*Atomic and Molecular Structure*

*Applied and Statistical Thermodynamics*

*Advanced Chemistry Laboratory*

*General Physics with Laboratory*

*Calculus I, II, and III in any sequence  
(A, B, or C)*

Recommended: *Calculus IV* and an advanced inorganic chemistry course.

A list of major requirements, several possible course sequences, and information about the major examination may be obtained from any member of the department.

Students interested in taking Chemistry BC 3599 should consult with individual faculty members about the research problems currently being investigated.

## Biochemistry

Courses required for the major are:

Chemistry BC 1601, BC 3328, BC 3230,  
BC 3231, BC 3333 or BC 3335, BC 3338  
or BC 3340, and BC 3355, Biochemistry  
Laboratory

Chemistry BC 3236 and BC 3264  
or Chemistry V 3059-V 3060  
Biology BC 1101, BC 1102  
Physics V 1103-V 1104

*Introductory Physical  
Chemistry I and II  
General Biology  
General Physics with  
Laboratory*

Calculus I and II

Biology-Chemistry C 3501 and C 3512     *Biochemistry I and II*

Elective courses totaling 5 points from a list of approved Biology and Chemistry courses.

A list of major requirements, including the courses from which the advanced laboratory and lecture electives are to be selected, and information about the major examination may be obtained from any member of the department.

## REQUIREMENTS FOR THE MINOR

Courses required for the Chemistry minor are: Chemistry BC 1601, BC 3328, BC 3230, BC 3231, BC 3333, and BC 3338, plus one of the following three: Chemistry BC 3232, BC 3236, or V 3059.

There is no minor in Biochemistry.

## COURSES OF INSTRUCTION

### CHE BC 1601x. General Chemistry I.

Particulate nature of matter in various states; chemical transformations of matter, especially of ionic substances; properties of gases and kinetic theory, solutions, equilibrium, acid-base, precipitation and oxidation-reduction reactions, and thermochemistry; laboratory experience with both qualitative and quantitative techniques.—S. Chapman, G. King, with B. Goodstein, O. Jebejian, R. Peller, and C. Wu.

*Prerequisite: Algebra (Math SAT score of 550 for freshmen).*

*Total enrollment in laboratory limited to 160 students.*

*5 points. Lecture Tu Th 9:10-10:25.*

*Recitation one afternoon M Tu W Th or F 1:10-2:00.*

*Laboratory same afternoon as recitation M Tu W Th or F 2:00-5:00.*

*Lecture and lab must be taken together unless permission of the instructor is given at the time of program filing. Laboratory fee \$28.*

# Chemistry

## **CHE BC 1602y. General Chemistry II.**

Kinetics and mechanisms of chemical reactions; nuclear chemistry and radioactivity; atomic and molecular structure; chemistry of selected elements with attention to carbon; selected topics in environmental chemistry and biochemistry.—S. Weinstock, G. King, and O. Jebejian.

*Prerequisite:* BC 1601 or permission of the instructor. Students who have completed BC 3230 or its equivalent may not subsequently receive credit toward the degree for BC 1602. Primarily for majors in fields other than science.

5 points. Lecture M W F 10:00.

Recitation and laboratory one afternoon Tu or W 1:10-5:00. Laboratory fee \$28.

## **CHE BC 3328y. Introductory Organic Chemistry Laboratory.**

Basic techniques of experimental organic chemistry. Principles and methods of separation, purification, and characterization of organic compounds and techniques of compound preparation.—B. Jacobson with J. Carter, B. Goodstein, P. Humphreys, and R. Peller.

*Prerequisite:* BC 1601 or equivalent with grade of C- or better, or BC 1601 and BC 1602 or equivalent. *Corequisite:* BC 3230 or equivalent.

Enrollment limited to 144.

2½ points.

Lecture one afternoon M Tu W Th or F 1:00-1:50.

Laboratory same afternoon as lecture M Tu W Th or F 1:50-5:30. Laboratory fee \$35.

## **CHE BC 3230y. Organic Chemistry I.**

Atomic and molecular structure; an introduction to aliphatic and aromatic chemistry with emphasis on modern theories; basic organic reaction mechanisms, stereochemistry and spectroscopy.—S. Weinstock.

*Prerequisite:* BC 1601 or equivalent with a grade of C- or better, or BC 1601 and BC 1602 or equivalent. Credit will not be given for any course below the 3000 level after completing Chemistry BC 3230 or its equivalent.

3 points. Lecture Tu Th 9:10-10:25.

Problem section F 12:00.

## **CHE BC 3231x. Organic Chemistry II.**

Continued treatment of the topics of Organic Chemistry I with extensions and an introduction to biological compounds and biomacromolecules.—B. Jacobson.

*Prerequisite:* BC 3230. Required for biology majors and premedical students.

3 points. M W F 10:00.

Problem section Tu 12:00.

## **CHE BC 3232y. Intermediate General Chemistry.**

Selected aspects of general chemistry, primarily for premedical and biological science students without the background for Chemistry BC 3236 or V 3059. Thermochemistry, chemical equilibrium, chemical kinetics, complex ions and coordination compounds, and nuclear chemistry, with applications to analytical chemistry and biochemistry.—B.G. Segal.

*Prerequisites:* BC 1601 and Organic Chemistry I. BC 3230 may be taken as a corequisite with permission of the instructor.

*Optional parallel laboratory work:* one afternoon under BC 3338.

Course C 1404 is not an acceptable equivalent for BC 3232.

3 points. M W F 10:00.

## **CHE BC 3333x. Modern Techniques of Organic Chemistry Laboratory.**

Introduction to qualitative and quantitative organic analysis and to advanced techniques, emphasizing instrumental and chromatographic methods.—B. Jacobson and J. Carter.

*Prerequisites:* BC 3328 and BC 3230. *Corequisite:* BC 3231. Suitable for premedical and biological science students, but not required by all medical schools. Required of biochemistry majors.

Enrollment limited to 24 students.

3 points. Lecture Th 1:10.

Laboratory one afternoon Tu 1:10-5:30 or F 1:10-5:30. Laboratory fee \$35.

## **CHE BC 3335x. Modern Techniques of Organic Chemistry Laboratory.**

Identical with BC 3333, but with a library problem, a short project and additional preparative experiments.—B. Jacobson and J. Carter.

*Prerequisites:* BC 3328 and BC 3230. *Corequisite:* BC 3231. Chemistry majors must take this course, but it is not required by medical schools. Enrollment limited to 15 students.

5 points. Lecture Th 1:10.

Laboratory two afternoons Tu 1:10-5:00.

Th 2:10-6:00 plus two additional hours to be arranged.

Laboratory fee \$35.

## **CHE BC 3236y. Introductory Thermodynamics and Kinetics.**

Introduction to the laws of thermodynamics and chemical kinetics.—R. Friedman.

*Prerequisites:* BC 3230, Calculus I and II, and preceding or parallel Physics V 1103-V 1104 and Calculus III. Recommended parallel: BC 3338 or BC 3340.

4 points.

Lecture Tu Th 9:10-10:25 and F 12:00.



# Chemistry

## **CHE BC 3338y. Quantitative and Instrumental Techniques Laboratory.**

Quantitative techniques in volumetric analysis, radiochemistry, spectrophotometry, and pH measurement. Biochemical applications are included and some experience with computer programming is provided.—R. Friedman and O. Jebejian.

*Corequisite for students not majoring in chemistry or biochemistry: BC 3232 or BC 3236.*

*Suitable for premedical and biological science students. Required of biochemistry majors.*

*3 points. Lecture Tu 1:10.*

*Laboratory Tu 2:10-6:00 or Th 1:10-5:00.*

*Laboratory fee \$35.*

## **CHE BC 3340y. Quantitative and Instrumental Techniques Laboratory.**

Identical with BC 3338 except that a greater variety of experiments is offered, with more individual options.—R. Friedman and O. Jebejian.

*Corequisite for students not majoring in chemistry or biochemistry: BC 3232 or BC 3236.*

*Required of chemistry majors and suitable also for biochemistry majors and for premedical and biological science students.*

*5 points. Lecture Tu 1:10.*

*Laboratory two afternoons Tu 2:10-6:00 and Th 1:10-5:00.*

*Laboratory fee \$35.*

## **CHE V 3059x. Introductory Physical Chemistry I.**

Thermodynamics, physical chemistry of solutions, chemical equilibria including acid-base equilibria, electrochemistry.—B.G. Segal.

*Prerequisites: Organic Chemistry II, Calculus I and II, and Physics V 1103-V 1104, or the equivalents. Intended for majors in biochemistry and biology, and premedical students.*

*3 points.*

*Recommended laboratory: BC 3338 or BC 3340.*

*Lecture M W F 11:00.*

*Problem Section W 12:00.*

## **CHE V 3060y. Introductory Physical Chemistry II.**

Kinetic theory, chemical kinetics, transport properties, macromolecules, quantum chemistry, and spectroscopy with applications to biological systems.—M. Vernon and J. Barton.

*Prerequisite: V 3059 or permission of the instructor.*

*3 points. M W F 11:00.*

## **CHE BC 3355x. Biochemistry Laboratory Techniques.**

Experience with fundamental techniques used in the isolation, characterization and study of biomolecules. Techniques employed include homogenization, centrifugation, solvent extraction, salt fractionation, chromatography, electrophoresis, chemical and enzymic assays, enzyme kinetics and simple genetic cell transformation methods.—S. Weinstock and P. Humphreys.

*Prerequisites: BC 3231, or one year of Organic Chemistry, Biology BC 1101, BC 1102 or equivalent, and a total of four semesters of chemistry and biology laboratory. Corequisite: Biology-Chemistry C 3501 or Biochemistry G 4021. Enrollment limited to 24 students.*

*5 points. Lecture M 12:10-1:00.*

*Laboratory Tu 1:10-5:00 and Th 1:10-5:00.*

*Laboratory fee \$45.*

## **CHE BC 3261x. Atomic and Molecular Structure.**

Introduction to quantum chemistry and spectroscopy.—R. Friedman.

*Prerequisites: BC 3236, Physics V 1103-V 1104, and Calculus III. Calculus IV is recommended.*

*4 points. Lecture M W F 11:00, Tu 12:00.*

## **CHE BC 3264y. Applied and Statistical Thermodynamics.**

Thermodynamics of real gases and solutions; phase equilibria; electrochemistry; kinetic theory of gases; statistical thermodynamics, partition functions, equilibrium.—B.G. Segal.

*Prerequisites: BC 3230, BC 3236, Physics V 1103-V 1104, and Calculus III. BC 3261 and Calculus IV are recommended.*

*4 points. Lecture M W F 11:00, M 12:00.*

## **CHE BC 3365x. Advanced Chemistry Laboratory.**

Experiments in kinetics, various types of spectroscopy, thermodynamics, and electrochemistry using instrumental methods; preparation and characterization of inorganic compounds; some experience with computer programming. Chemistry majors must take both BC 3365x and BC 3368y, or BC 3370y. Suitable for biochemistry majors also.—S. Chapman and C. Wu.

*Prerequisites: BC 3236 or V 3059, and BC 3338 or equivalent. BC 3333 or BC 3335 is recommended.*

*3 points. Lecture Th 12:00.*

*Laboratory W 1:10-5:00, and if enrollment requires, M 1:10-5:00.*

*Laboratory fee \$35.*

# Chemistry

## **CHE BC 3368y. Advanced Chemistry Laboratory.**

Topics identical with BC 3365. These courses may be taken in either order.—S. Chapman and C. Wu.

*Prerequisites identical with BC 3365.*

*3 points. Lecture Tu 12:00.*

*Laboratory W 1:10-5:00.*

## **CHE BC 3370y. Advanced Chemistry Laboratory.**

Identical with BC 3365 plus BC 3368.—S. Chapman and C. Wu.

*Prerequisites: BC 3236 or V 3059, and BC 3338 or equivalent, and BC 3261. Corequisite: BC 3264. BC 3333 is recommended.*

*5 points. Lecture Tu 12:00.*

*Laboratory two afternoons M W 1:10-5:00.*

*Laboratory fee \$35.*

## **CHE C 3071y. Introduction to Inorganic Chemistry.**

Principles governing the structure and reactivity of inorganic compounds surveyed from experimental and theoretical viewpoints. Topics include inorganic solids, aqueous and nonaqueous solutions, the chemistry of selected main group elements, transition metal chemistry, metal clusters, metal carbonyls, and organometallic chemistry.—C. Floriani.

*Prerequisite: Organic Chemistry II.*

*3 points. M W F 9:00.*

## **CHE BC 3598x, CHE BC 3598y. External Problems in Chemistry.**

Advanced individual laboratory projects at other institutions for students who have completed the major requirements.—Staff.

*Prerequisites: Completion of laboratory courses BC 3333 and BC 3338. For some projects, BC 3370 is also required. Mandatory pass/fail grading.*

*4 points.*

## **CHE BC 3599x, CHE BC 3599y. Problems in Chemistry.**

Advanced individual laboratory projects for students who have completed the major requirements.—Staff.

*Prerequisites: Completion of laboratory courses BC 3333 and BC 3338. For some projects, BC 3370 is also required. Permission of the instructor required.*

*4 points. Eight hours by arrangement.*

*Laboratory fee \$35.*

## **SUMMER RESEARCH**

There are available a number of fellowships for summer research within the department. Individual members of the department should be consulted, early in the spring semester, about the availability of projects.

Attention is called to the following courses offered elsewhere in the University. All require at least four semesters of chemistry as prerequisites.

### **Biology-Chemistry BCH C 3501x.**

#### **Biochemistry I.**

C. Levinthal and A. Tzagoloff.

*4 points. M W F 10:00.*

### **Biology-Chemistry BCH G 4170x.**

#### **Biophysical Chemistry.**

Instructor to be announced.

*4½ points. M W F 10:00-10:50*

### **Biology-Chemistry BCH C 3512y.**

#### **Biochemistry II.**

C. Prives and D. Robins.

*3 points. Tu Th 9:10.*

### **Chemistry CHE G 4103x. Inorganic Chemistry.**

Instructor to be announced.

*4½ points. Tu Th 9:10.*

### **Chemistry CHE G 4131x. Introductory Quantum Chemistry.**

M. Vernon.

*4½ points. M W F 12:00.*

### **Chemistry CHE G 4147x. Advanced Organic Chemistry.**

Staff.

*4½ points. M W F 9:00.*

### **Chemistry CHE G 4172y. Bio-Organic Topics.**

Staff.

*4½ points. M W F 11:00.*

### **Chemistry CHE G 4221x. Quantum Chemistry I.**

Staff.

*4½ points. M W F 12:00.*

### **Chemistry CHE G 4231y. Chemical Kinetics.**

Staff.

*4½ points. M W F 10:00-10:50.*



# Classics

Office: 215 Milbank Hall

Telephone: 280-4389, 8312

## Professor

Helen H. Bacon<sup>3</sup>

## Associate Professors

Helene P. Foley,<sup>3</sup> Lydia H. Lenaghan (Chairman)

## Assistant Professor

Daniel L. Selden

## Instructor

Lesley A. Jones

Other officers of the University offering courses in Classics:

## Professors

Roger S. Bagnall, Alan D.E. Cameron,<sup>3</sup> James A. Coulter, Leonardo Taran,<sup>3</sup> James E.G. Zetzel

## Associate Professor

Richard Janko<sup>3</sup>

## Assistant Professors

Darice E. Birge, Peter Knox,<sup>2</sup> John Magee,<sup>3</sup> Dirk Obbink, Matthew S. Santirocco, Laura M. Slatkin

<sup>1</sup>Absent on leave, Autumn Term

<sup>2</sup>Absent on leave, Spring Term

<sup>3</sup>Absent on leave, 1986-87

The objectives of the department are to provide students with a knowledge of the language and an understanding of the literature and civilization of the ancient Greeks and Romans. The close cooperation of Barnard and Columbia in planning and implementing the curriculum offers students a wide range of specialties from which to construct a sound and coherent program of studies according to their individual interests. All members of the Barnard department are available as advisers and should be consulted as early as possible in the planning of a major program.

Students may fulfill the foreign language requirement in Greek by completing Greek BC 2011, *Prose and Poetry*, and Greek BC 2012, *Selections from Homer*; or in Latin by completing Latin BC 2003, *Latin Literature: Prose*, and Latin BC 2004, *Vergil: Selections from the Aeneid* (or the equivalent Columbia course in each language); or by completing one semester of study above Greek BC 2012 or Latin BC 2004 (or the equivalent Columbia courses); or by passing an exemption examination with a sufficiently high grade. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin.

The Classics Department is the beneficiary of the Matthew Alan Kramer Fund whose principal purpose is the support of the production of plays in Ancient Greek and Latin. In recent years students of the department have produced *Medea*, *Alcestis*, *The Persians*, *The Eumenides*, *Cyclops*, *Electra*, and *Trojan Women* which have proved not only satisfying in themselves, but have provided an exciting and different learning experience for the participants.

Barnard College participates in the program of the Intercollegiate Center for Classical Studies in Rome. Students who have completed at least four semesters of Latin above the elementary course, and at least one semester of elementary Greek, are eligible to apply for admission to the program of the Rome Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center may be used in the major and, in some cases, may be used to satisfy distribution requirements. Barnard College is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and certain privileges of those schools are open, without fee, to graduates of the College.

# Classics

## REQUIREMENTS FOR THE MAJOR IN GREEK, LATIN, AND GREEK AND LATIN

The major in Greek or Latin requires a minimum of eight courses above the elementary level.

In Greek, this would be fulfilled by taking

Greek W 4139

Greek W 4105-W 4106

and five others.

*Greek Syntax*

*History of Greek Literature*

In Latin this would be fulfilled by taking

Latin W 4139

Latin W 4105-W 4106

and five others.

*Latin Syntax*

*History of Latin Literature*

In addition, two semesters of ancient history appropriate to the major are required. For one of these, however, a relevant course in ancient art, classical civilization or literature, ancient philosophy, or religion may be substituted.

Majors in Latin, especially those who have begun their study in high school, are strongly advised to take at least two semesters of Greek.

A student may elect to major in both Greek and Latin by completing the major requirements in one language and 5 courses above the elementary level in the other.

## REQUIREMENTS FOR THE MINOR

The minor in Classics requires five courses above the elementary level.

FOR THE REQUIREMENTS FOR THE MAJOR IN ANCIENT STUDIES, SEE ANCIENT STUDIES.

## COURSES OF INSTRUCTION

### CLASSICS IN TRANSLATION

There are no prerequisites for the Classical Literature or Classical Civilization courses.

#### **Classical Literature CLL BC 1032x.**

##### **Classical Myth.**

Survey of major myths from the ancient Near East to the advent of Christianity, with emphasis upon the content and treatment of myths in classical authors (Homer, Hesiod, Aeschylus, Euripides, Sophocles, Vergil, Livy, Ovid).—D. Birge.

*Not offered in 1986-87.*

3 points.

III/H

#### **Art History-Classical Literature AHC V 3245x. Greek Mythology in Ancient Art and Literature.**

An analytic and comparative survey of major Greek myths in terms of their application and representation in classical literature and art.—D. Birge, B. Cohen.

3 points. Tu Th 4:10-5:25.

#### **Classical Literature CLL V 3123x. Greek Drama and Its Influences.**

Evolution of various types of tragedy and comedy from the 5th century B.C. in Athens to the 1st century A.D. in Rome; relation of these forms to later European dramatic forms; theories of comedy and tragedy including those of Aristotle; the production of plays.—L. Jones.

3 points. M W F 11:00.

III/H

#### **Classical Literature CLL V 3135y. The Ancient Novel.**

The evolution of the Greek and Roman novel and its place within the literary canon; particular attention to principles of narrative and the ideological function of prose fiction. Petronius, Apuleius; Lucian, Heliodorus, Achilles Tatius, Longus; Acts of the Apostles, and saints' lives.—D. Selden.

3 points. M W 1:10-2:25.

III/H

#### **Classical Literature CLL W 4300y. The Classical Tradition.**

Social, political, intellectual, and religious contexts in which epic, lyric, tragic and comic poetry originally developed in Greece; Roman adaptations and their influence on modern poets.—M. Santirocco.

3 points. Tu Th 6:10-7:25.

III/H

#### **Classical Literature CLL W 4140y. Greek Interpretive Texts:**

##### **Varieties of Ancient Literary Hermeneutics.**

A survey of ancient Greek ideas about meaning in literary texts, and of the development of ancient literary hermeneutics. Primary texts will range in date from the 4th c. B.C. (the Derveni Papyrus) to the 5th c. A.D. (Proclus), with emphasis on Middle Platonism and Neoplatonism.—R. Lamberton.

*Not offered in 1986-87.*

3 points.



## **Classical Civilization CLC V 3158y.**

### **Women in Antiquity.**

Role of women in ancient Greek and Latin literature; portrayal of women in literature as compared with their actual social status; male and female in ancient Mediterranean cosmologies; readings from ancient epic, lyric, drama, history and historical documents, medical texts, oratory and philosophy as well as contemporary sociological and anthropological works which will help to analyze the origins of the Western attitude towards women.—H. Foley.

*Not offered in 1986-87.*

*3 points.*

*III/H*

## **Classical Civilization CLC V 3162x.**

### **Ancient Law.**

Greek and Hellenistic legal systems. Roman law until the time of Justinian; development of law, legal codes as an expression of the nature of society which produced them.—R. Bagnall.

*3 points. Tu Th 1:10-2:25.*

## **Classical Civilization CLC V 3163x.**

### **The Greek Historical Tradition.**

Greek conceptions of how history is made; determining influences such as divine interference, individual human exploits, chance; analysis of epic, philosophical, and historical texts.

*Not offered in 1986-87.*

*3 points.*

## **Classical Civilization CLC V 3175y.**

### **The World of Late Antiquity.**

The social, economic and religious history of the Roman world from the second to the early seventh century A.D.—A. Cameron.

*Not offered in 1986-87.*

*3 points.*

## **Classical Civilization CLC V 3140x.**

### **The Archaeology of the Later Greek**

#### **Bronze Age.**

The material culture of Mycenaean Greece and Crete, including architecture, painting, pottery and the Linear B tablets. The problem of the final collapse of Mycenaean Civilization, and the Dark Ages, which gave rise to the Homeric poems.—R. Janko.

*Not offered in 1986-87.*

*3 points.*

## **Classical Civilization CLC V 3145y.**

### **Cities and Sanctuaries in Ancient Greece.**

The development, major elements, and noteworthy peculiarities of Greek cities and sanctuaries. Emphasis will be on individual monuments and the arrangement of sites and

their political, social, and religious functions throughout the Greek world from the rise of city-states through the formation of the Roman provinces.—D. Birge.

*3 points. M W 4:10-5:25.*

## **GREEK LANGUAGE AND LITERATURE**

### **GRE BC 1001x-GRE BC 1002y.**

#### **Elementary Full-Year Course.**

Grammar, composition, and reading. In Greek BC 1002 a dialogue of Plato, generally the *Apology*, will be read.—x: L. Lenaghan; y: D. Obbink.

*BC 1001 is prerequisite to BC 1002.*

*No credit is given for BC 1001 unless BC 1002 is completed.*

*4 points. M W F 1:10-2:25.*

### **GRE W 1101x-GRE W 1102y.**

#### **Elementary Course.**

Equivalent to BC 1001-BC 1002.—L. Slatkin. *No credit is given for W 1101 unless W 1102 is completed.*

*4 points. M W F 11:00-12:15.*

### **GRE W 1121y. Intensive Elementary Course.**

This course is designed to cover all of Greek grammar and syntax in one semester in order to prepare the student to enter third semester Greek (BC 2011x or W 1201x) in the fall.—Staff.

*4 points. M W F 1:10-2:25.*

### **GRE BC 2011x. Greek Literature:**

#### **Prose and Poetry.**

Selections from Lysias and early elegiac and lyric poetry. There will be weekly assignments to review forms and syntax.—L. Jones.

*Prerequisite: BC 1001-BC 1002 or W 1101-W 1102.*

*4 points. Tu Th 10:35-11:50, F 10:00-10:50. II/H*

### **GRE W 1201y. Prose and Poetry.**

Equivalent to BC 2011.—D. Birge.

*Prerequisite: BC 1001-BC 1002 or W 1101-W 1102.*

*4 points. M W 2:40-3:55, F 2:10-3:00. II/H*

### **GRE BC 2012y. Selections from Homer.**

Detailed grammatical and literary study of several books of the *Iliad* or *Odyssey*, and introduction to the techniques of oral poetry, to the Homeric hexameter, and to the historical background of Homer.—L. Jones.

*Prerequisite: BC 2011 or permission of the instructor.*

*4 points. Tu Th 10:35-11:50, F 11:00-11:50. II/H*

# Classics

## **GRE W 1202y. Homer.**

Equivalent to BC 2012.

*Prerequisite:* BC 2011 or permission of the instructor.

*Not offered in 1986-87.*

4 points.

II/H

## **GRE V 3305x. Tragedy.**

*Prerequisites:* BC 2011 and BC 2012, or their equivalents.

*Alternate years. Not offered in 1986-87.*

3 points.

II/H

## **GRE V 3306y. Historians.**

*Prerequisites:* BC 2011 and BC 2012, or their equivalents.

*Alternate years. Not offered in 1986-87.*

3 points.

II/H

## **GRE V 3307x. Comedy.**

*Prerequisites:* BC 2011 and BC 2012, or their equivalents.

*Alternate years. Not offered in 1986-87.*

3 points.

II/H

## **GRE V 3308x. Philosophy.**

Aristotle's literary writings. Selections from Aristotle's *Rhetoric* and *Poetics*, with particular reference to his criticism of tragedy.—D. Obbink.

*Prerequisites:* BC 2011 and BC 2012, or their equivalents.

*Alternate years. Offered in 1986-87.*

3 points. Tu Th 10:35-11:50.

## **GRE V 3309x. Selections from Greek Literature, I.**

Content of course changes each year; it may be taken in consecutive years.—Instructor to be announced.

*Prerequisites:* BC 2011 and BC 2012, or their equivalents.

*Not offered in 1986-87.*

3 points.

II/H

## **GRE V 3310y. Selections from Greek Literature, II.**

Content of course changes each year; it may be taken in consecutive years. Topic for 1986-87: Lyric poetry. A survey and analysis of archaic lyric poetry with attention to its origins and place in contemporary society.—D. Birge.

*Prerequisites:* BC 2011 and BC 2012, or their equivalents.

3 points. M W 11:00-12:15.

II/H

## **GRE W 4139x. Greek Syntax.**

Writing of sentences and connected passages in Greek.—Staff.

*Prerequisite:* At least four terms of Greek or equivalent.

3 points. W 2:10-4:00.

## **GRE V 3997x, GRE V 3997y. Directed Reading.**

To be tested by a series of short papers, one long paper, or an oral or written examination.—Staff.

*Permission of the chairman of the department required.*

3 points. Hours to be arranged.

## **GRE V 3998x, GRE V 3998y. Supervised Research in Greek Literature.**

Program of research in Greek literature, with the composition of a paper embodying results.—Staff.

*Permission of the chairman of the department is required.*

3 points. Hours to be arranged.

## **GRE W 4009x. Selections from Greek Literature: Poetry.**

Content of course changes each year; it may be taken in consecutive years. Topic for 1986-87: Sophocles' *Oedipus at Colonus* will be covered in depth, with additional readings from other Sophoclean treatments of the Theban cycle. Special attention will be paid to Oedipus as tragic, mythic, and cultic hero.—D. Birge.

*Prerequisites:* BC 2011 and BC 2012, or their equivalents.

3 points. Tu Th 1:10-2:25.

II/H

## **GRE W 4010y. Selections from Greek Literature: Prose.**

Content of course changes each year; it may be taken in consecutive years. Topic for 1986-87: Readings from the main authors on the history of the Athenian Empire from the end of the Persian Wars to the Peloponnesian War: the "Old Oligarch," Herodotus, and Thucydides. The readings will center on these authors' descriptions and analyses of the strengths and weaknesses of Athens.—R. Bagnall.

*Prerequisites:* BC 2011 and BC 2012, or their equivalents.

3 points. Tu Th 9:10-10:25.

II/H

## **GRE W 4106x-GRE 4105y. History of Greek Literature.**

Lectures based on extensive readings in Greek literature from Homer to the fourth century A.D.—x: R. Lamberton; y: H. Foley.

*Prerequisite:* At least two terms of Greek beyond BC 2011 and BC 2012.



*x: Tu 4:10-6:00, Th 4:10-5:00; J. Coulter.  
y: M 4:10-6:00, W 4:10-5:00; L. Slatkin. II/H  
4 points.*

## LATIN LANGUAGE AND LITERATURE

### **LAT BC 1001x-LAT BC 1002y. Elementary Full-Year Course.**

Autumn: Grammar, composition, and reading. Spring: Complete review of grammar and syntax; emphasis on representative readings.—D. Selden.

*BC 1001 is normally prerequisite to BC 1002. BC 1002 may be taken without BC 1001 by permission of the instructor. No credit is given for BC 1001 until BC 1002 is completed.*

*4 points. M W F 11:00-12:15.*

### **LAT W 1101x-LAT W 1102y. Elementary Course.**

Equivalent to BC 1001-BC 1002.—Staff.

*4 points.*

*No credit is given for W 1101 until W 1102 is completed.*

*Section I M W F 1:10-2:25.*

*Section II M W F 2:40-3:55.*

*Section III M W F 6:10-7:25.*

### **LAT W 1101y-LAT W 1102x. Elementary Course.**

Equivalent to BC 1001-BC 1002, but given in the Spring and Autumn.—Staff.

*4 points.*

*No credit is given for W 1101 until W 1102 is completed.*

*Section I M W F 1:10-2:25.*

*Section II M W F 2:40-3:55.*

*Section III M W F 6:10-7:25.*

### **LAT W 1121y. Intensive Elementary Course.**

This course is designed to cover all of Latin grammar and syntax in one semester in order to prepare the student to enter third semester Latin (BC 2003x or W 1202x) in the fall.—Staff.

*4 points. M W F 2:40-3:55.*

### **LAT BC 2003x. Latin Literature: Prose.**

Petronius. Close reading of the *Cena Trimalchionis*, and several shorter episodes from the *Satyricon*, in their literary and historical contexts; in particular political aspects of language and the ideology of literary forms. Systematic review of Latin grammar and basic syntax. Supplementary readings in Bakhtin and Auerbach.—L. Jones.

*Prerequisite: BC 1001-BC 1002 or 2-3 years high school Latin.*

*4 points. M W 1:10-2:25, F 1:10-2:00. II/H*

### **LAT W 1201y. Latin Literature: Prose.**

Equivalent to BC 2003.—J. Zetzel.

*Prerequisite: BC 1001-BC 1002 or 2-3 years high school Latin.*

*4 points. M W 1:10-2:25, F 1:10-2:00. II/H*

### **LAT BC 2004y. Vergil.**

Selected books of the *Aeneid* with attention to meter, the epic form, and the literary and political issues of the Augustan age.—D. Obbink.

*Prerequisite: BC 1001-BC 1002 or 2-3 years high school Latin.*

*4 points. M W 1:10-2:25, F 1:10-2:00. II/H*

### **LAT W 1202x. Vergil.**

Equivalent to BC 2004.—Instructors to be announced.

*Prerequisite: BC 1001-BC 1002 or 2-3 years high school Latin.*

*4 points.*

*Section I M W 2:40-3:55, F 2:10-3:00.*

*Section II M W 6:10-7:25, F 6:10-7:00.*

*II/H*

### **LAT W 1203y. Ovid: Selections from the Metamorphoses.**

Staff.

*Prerequisite: BC 1001-BC 1002 or 2-3 years high school Latin.*

*4 points. M W 2:40-3:55, F 2:10-3:00. II/H*

### **LAT V 3012x. Lyric Poetry.**

Selections from Catullus' polymetric poems and epigrams and from Horace's *Odes* and *Epodes*. The course combines literary analysis with work in grammar and metrics.—D. Selden.

*Prerequisite: BC 2004 or four years of high school Latin.*

*3 points. M W 1:10-2:25.*

*II/H*

### **LAT BC 3033y. Medieval Literature.**

Survey of representative late Latin and medieval texts; readings from the Vulgate, the Church Fathers, sacred and secular lyric, history, romance, satire, and biography; practice in paleography.—J. Magee.

*Prerequisite: Three semesters of college Latin or permission of the instructor.*

*3 points. Tu Th 1:10-2:25.*

*II/H*

### **LAT V 3305x. Historians.**

Readings from Tacitus' *Annals* 13-16; Nero princeps, poet, and playboy. Exploration of the historian's political and moral principles

# Classics

and of his artistic methods.—L. Lenaghan.  
*Prerequisite: Course V 3012 or the equivalent.*  
*Alternate years. Offered in 1986-87.*  
 3 points. *M W 2:40-3:55.* II/H

## **LAT V 3306y. Roman Satire.**

Readings from Horace and Juvenal.—J. Magee.  
*Prerequisite: Course V 3012 or the equivalent.*  
*Alternate years. Offered in 1986-87.*  
 3 points. *M W 4:10-5:25.* II/H

## **LAT V 3307y. Elegiac Poetry.**

*Prerequisite: Course V 3012 or the equivalent.*  
*Alternate years. Not offered in 1986-87.*  
 3 points. II/H

## **LAT V 3308x. Philosophy.**

*Prerequisite: Course V 3012 or the equivalent.*  
*Alternate years. Not offered in 1986-87.*  
 3 points. II/H

## **LAT V 3309x. Selections from Latin Literature, I.**

Content of course changes from year to year; it may be taken for credit in successive years.  
*Prerequisite: Course V 3012 or the equivalent.*  
*Not offered in 1986-87.*  
 3 points. II/H

## **LAT V 3310y. Selections from Latin Literature, II.**

Content of course changes from year to year; it may be taken for credit in consecutive years.  
*Prerequisite: Course V 3012 or the equivalent.*  
*Not offered in 1986-87.*  
 3 points. II/H

## **LAT W 4009x. Selections from Latin Literature: Poetry.**

Content of course changes each year; it may be taken in consecutive years. Topic for 1986-87: Critical analysis of the *Aeneid* through close reading of selected portions from all twelve books. Topics to be discussed include structure, style, literary affiliations, and political ideology. The aim of this course is to provide widest familiarity with the poem.—M. Santirocco.  
*Prerequisite: Course V 3012 or the equivalent.*  
 3 points. *Tu Th 2:00-3:55.* II/H

## **LAT W 4010y. Selections from Latin Literature: Prose.**

Content of course changes each year; it may be taken in consecutive years. Topic for 1986-87: An introduction to the range of Ciceronian public writings and to the social and intellectual context in which they were composed. Selections from the major genres of his works, except the letters.—J. Zetzel.  
*Prerequisite: Course V 3012 or the equivalent.*  
 3 points. *Tu Th 2:40-3:55.* II/H

## **LAT W 4139x. Latin Syntax.**

Writing of sentences and connected passages in Latin.—P. Knox.  
*Prerequisite: At least four terms of Latin or the equivalent.*  
 3 points. *Tu 11:00-12:50.*

## **LAT V 3997x, LAT V 3997y. Directed Reading.**

To be tested by a series of short papers, one long paper, or an oral or written examination.—Staff.  
*Permission of the chairman of the department required.*  
 3 points. *Hours to be arranged.*

## **LAT V 3998x, LAT V 3998y. Supervised Research in Latin Literature.**

A program of research in Latin literature, with the composition of a paper embodying results.—Staff.  
*Permission of the chairman of the department required.*  
 3 points. *Hours to be arranged.*

## **LAT W 4105x, LAT V 4106y. History of Latin Literature.**

Lectures based on extensive readings in Latin literature from the beginning to the fourth century A.D.—x: M. Santirocco; y: P. Knox.  
*Prerequisite: At least two terms of Latin beyond Course V 3012.*  
 4 points.  
*x: Tu 4:10-6:00, Th 4:10-5:00; M. Santirocco.*  
*y: W 11:00-11:50, F 10:00-11:50; L. Lenaghan.* II/H

## **LAT W 4152x. Medieval Latin Literature.**

Readings from Latin authors of the late classical period and the early Middle Ages.—J. Magee.  
*Prerequisite: Course V 3012 or the equivalent.*  
 3 points. *M W 4:10-5:25.* II/H

## GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the chairman and the major adviser. The courses are described in the Bulletin of the Graduate School of Arts and Sciences.

## MODERN GREEK LANGUAGE AND LITERATURE

### **MGR BC 1001x-MGR BC 1002y.**

#### **Elementary Full-Year Course.**

Introduction to Demotic Greek; emphasis on both speaking and writing; basic grammar and syntax; pattern practice reinforced by laboratory attendance; easy reading.—Instructor to be announced.



*Work in the language laboratory is required.  
No credit is given for BC 1001 until BC 1002 is completed.*

*Not offered in 1986-87.*

*3 points.*

## **MGR BC 2003x. Intermediate Course, I.**

More complex and idiomatic Greek through a variety of readings, including selections from Kazantzakis' *Report to Greco* and short stories by Myrivilis and Venezis; grammar and syntax review; conversation; short weekly compositions.—Instructor to be announced.

*Prerequisite: BC 1001-BC 1002 or the equivalent.*

*Not offered in 1986-87.*

*3 points.*

## **MGR BC 2004y. Intermediate Course, II.**

Selected readings from Modern Greek literature, both poetry and prose, annotated and presented in order of difficulty, used as a basis for discussion and composition. Poems by Solomos, Palamas, Cavafy, Seferis; short stories and essays by Theotokas, Terzakos and others. The improvement of the student's language skills is still a primary goal.—Instructor to be announced.

*Prerequisite: BC 2003 or the permission of the instructor.*

*Not offered in 1986-87.*

*3 points.*

## **MGR BC 3005x. Prose of the Twentieth Century: 1930-1950.**

Four works representing the main trends of twentieth-century prose up to the Civil War: Myrivilis' *Life in the Tomb*, Venezis' *Aeolian Land*, Petsalis-Diomedes' *The Bell of Holy Trinity*, and Kazantzakis' *The Fratricides*. Main themes highlighted by a few relevant poems by Cavafy, Sikelianos and Seferis. Instructor to be announced.

*Prerequisite: BC 2004 or permission of the instructor.*

*Not offered in 1986-87.*

*3 points.*

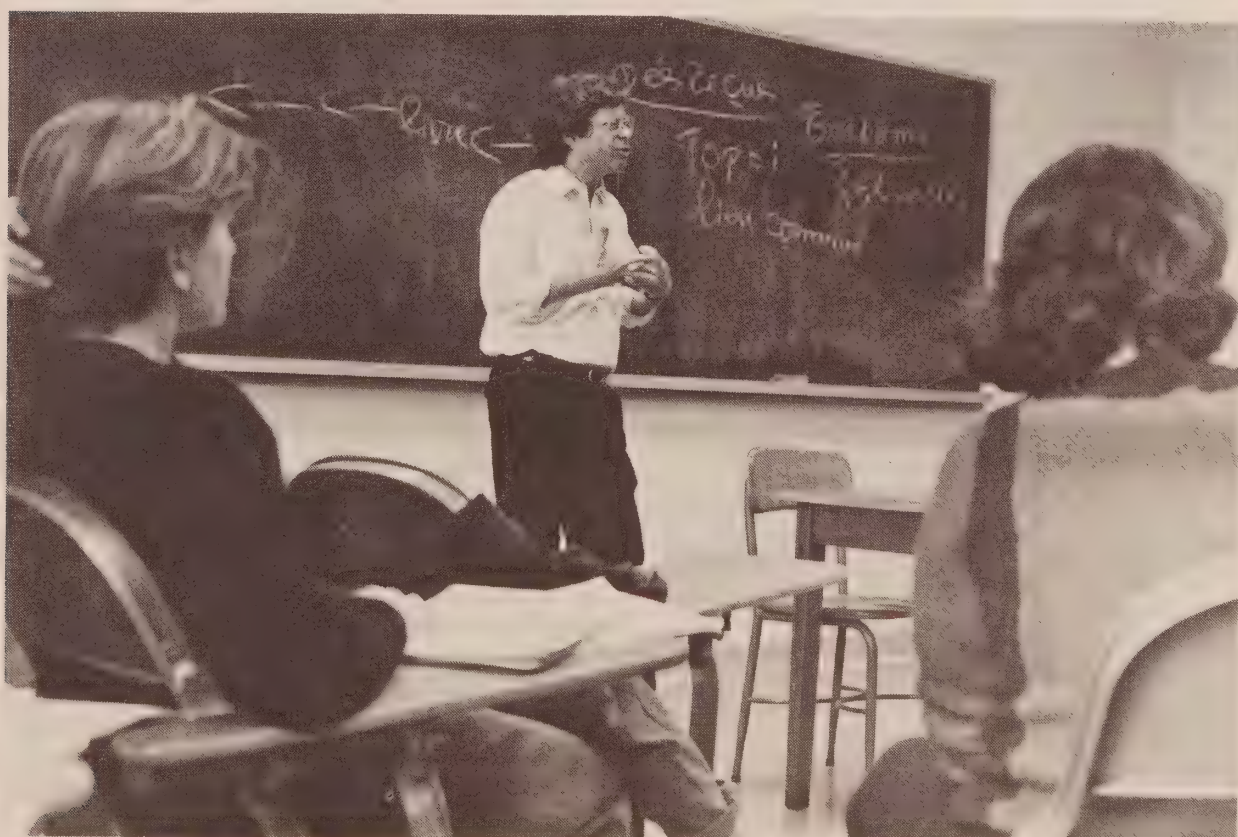
## **MGR BC 3006y. Contemporary Prose and Poetry.**

Divided equally between prose and poetry: selections from a few important works written after 1950: Samarakis' *I Refuse*, Vassilikos' *The Leaf*, *The Well*, *The Angel*, Margarita Lymberaki's *The Other Alexander*, Seferis' *Logbook III*, Ritsos' *Romiosini*, *Moonlight Sonata*, *Repetitions*, and Elytis' *The Axion Esti*.—Instructor to be announced.

*Prerequisite: BC 3005 or permission of the instructor.*

*Not offered in 1986-87.*

*3 points.*



# Computer Science

Office: 450 Computer Science Building

Telephone: 280-2736

Officers of the University offering courses listed below:

## **University Professor**

Samuel Eilenberg

## **Professors**

Theodore R. Bashkow, Zvi Galil, Jonathan L. Gross (Vice Chairman), Joseph F. Traub (Chairman), Stephen H. Unger, Henryk Wozniakowski

## **Associate Professors**

John Kender, Michael Lebowitz, David E. Shaw, Salvatore Stolfo, Grzegorz Wasilkowski (Program Consultant), Yechiam Yemini

## **Assistant Professors**

Peter Allen, Steven Feiner, Michael Foster, Gail Kaiser, Gerald Q. Maguire, Jr., Kathleen McKeown

## **Lecturers**

David Bantz, Frantisek Franek, Jacob Gielchinsky, Mark Kon

## **Adjunct Professor**

Bruce Gilchrist

The spectrum of computer science ranges from the analysis of problems in a great variety of applications to the design of the machines that effect the solutions, and it includes all the linking steps between them. Computer scientists are interested not only in mathematics and engineering, but also in the sources of the problems, wherever they lie. Thus, although most recent graduates in Computer Science are now in computer science proper, either in industry or in graduate degree programs, many are in medical school, business school, or other such activities, planning to combine computer science with another strong interest in their careers.

The Computer Science curriculum has a double core, partially in areas with an immediate relationship to the computer, such as programming languages, compilers, operating systems, and computer architecture, and partially in theoretical computer science and mathematics. A broad range of upper level courses is available in topics such as artificial intelligence, computational complexity, and the analysis of algorithms, combinatorial methods, computer circuitry, data bases, mathematical models for computation, optimization, and software systems. Thus, students obtain the background to pursue their interests both in applications and in theoretical developments.

The Computer Center operates two interactive systems, making nearly 100 terminals available at convenient locations on the Columbia campus, including some dormitories, with two DEC 20 RO systems. It also operates a major research facility with an IBM. In addition, a small but powerful minicomputer is available for faculty and student research. Most important computer languages are supported, including ALGOL, APL, BASIC, COBOL, FORTRAN, LISP, PASCAL, PL/I and SNOBOL. Additional equipment acquisitions are planned.

In addition to course work, students sometimes assist faculty members on research projects or on the development of software. Qualified majors often serve as consultants at the Computer Center.

There are several different introductory courses in computer programming. Students may elect only one of them for degree credit. Freshmen considering a Computer Science major should take W 1003. Non-majors usually take W 1001, *Introduction to Computer Programming, A*. There is also an intermediate course for non-majors, W 1011, *Intermediate Computer Programming*. By taking W 1001 or W 1003 early in their college years, non-majors are able to use the computer in their upper-level studies in other departments.



# Computer Science

## REQUIREMENTS FOR THE MAJOR

Students who plan to major in Computer Science should see a Program Consultant by the start of the sophomore year.

A total of 16 courses are required for the major.

W 1003	(preferably in the freshman year)
Mathematics	<i>Calculus I and II</i> (preferably in the freshman year)
W 3131	<i>Data Structures</i> (preferably in the sophomore year)
W 3152	<i>Software Design Laboratory</i> (preferably in the sophomore year)
W 3203	<i>Discrete Mathematics, I</i> (preferably in the sophomore year)
W 3205	<i>Discrete Mathematics, II</i> (preferably in the sophomore year)
W 3232	<i>Fundamental Algorithms</i> (preferably in the sophomore year)
W 3244	<i>Probability and Matrix Models</i>
W 3261	<i>Computability and Models of Computation</i>
W 3823	<i>Digital Logic</i>
W 3824	<i>Computer Organization, I</i>
W 4115	<i>Programming Languages and Translators, I</i>
W 4701	<i>Artificial Intelligence</i>

and an approved choice of two additional courses to be selected from computer science, mathematics, or statistics.

Note: A student may substitute *Introduction to Probability* (E 3658) and *Applied Math I* (E 3101) for W 3244 if desired; in which case one of these will count toward the elective requirement. *Both* of these courses must be taken to allow the substitution.

Students of the class of 1987 should follow the old degree requirements as stated in the 1985-86 Barnard Catalogue. 39 points: 6 points in calculus (I-II); 21 points in required computer science courses: W 1001 or W 1003, W 3203, W 3204, W 3823, W 3131, W 3232, and W 3261; 12 points of appropriate elective upper-level courses in computer science, mathematics, or statistics.

## REQUIREMENTS FOR THE MINOR

Five courses are required for the minor: Computer Science W 3203, W 3131, W 3232, W 3823, and one of the following: W 3824, W 4115, or W 4701.

## COURSES OF INSTRUCTION

### CSC W 1001x, CSC W 1001y. Introduction to Computer Programming, A.

Intended primarily for students in the Arts and Sciences divisions. General introduction to computer programming. Emphasis on learning to write programs to solve problems in familiar applications, such as payroll, computer-assisted instruction, ecology, library science, literary text analysis, cryptology, and game playing. Rudiments of structured programming. PASCAL.—Instructor to be announced.

Laboratory fee \$35.

3 points.

Section I: Hours to be arranged.

Section II: Hours to be arranged.

### CSC W 1003x, CSC W 1003y. Introduction to Computer Programming, B.

Intended primarily for students considering a major in computer science. Honors level introduction to computer programming. PASCAL.—Instructor to be announced.

Laboratory fee \$35.

3 points.

x: Hours to be arranged.

y: Hours to be arranged.

### CSC W 1005x, CSC W 1005y. Introduction to Computer Programming, C.

Intended primarily for engineering students. General introduction to computer programming, with engineering applications. Structured program design. FORTRAN.—Instructor to be announced.

# Computer Science

*Laboratory fee \$35.*

*3 points.*

*Section I: Hours to be arranged.*

*Section II: Hours to be arranged.*

## **CSC W 1011x, CSC W 1011y. Intermediate Computer Programming.**

Continuation of introductory courses; simple record structures and file processing, in both advanced BASIC and PASCAL; systems of programs and files, modeling; round off error; elementary principles of machine language and assembly language coding.—Instructor to be announced.

*Laboratory fee \$35.*

*Prerequisite: W 1001 or W 1005.*

*3 points.*

*x: Hours to be arranged.*

*y: Hours to be arranged.*

## **CSC W 3131x, CSC W 3131y. Data Structures.**

Data types and structure: arrows, stacks, singly and doubly linked lists, queues, trees, sets, and graphs; programming techniques for processing such structures; recursive programming, internal sorting and searching, hashing, garbage collection; storage management; rudiments of the analysis of algorithms.—Instructors to be announced.

*Corequisite: W 3203.*

*3 points.*

*x: Hours to be arranged.*

*y: Hours to be arranged.*

## **CSC W 3152y.**

### **Software Design Laboratory.**

Principles of software engineering including definition and use of abstract data types, top-down design, structured programming, modular decomposition, and testing and debugging strategies. A substantial amount of programming is required. It is strongly recommended that this course be taken concurrently with CSC W 3232.—G. Kaiser.

*Prerequisite: CSC W 3131.*

*1.5 points. Hours to be arranged.*

## **CSC W 3203x, CSC W 3203y. Discrete Mathematics I: Introduction to Combinatorics and Graph Theory.**

Mathematical induction, counting arguments (permutations and combinations, elementary finite probability, generating functions, recurrence relations, inclusion-exclusion principle), and topics in graph theory (isomorphism, planarity, circuits, trees, and directed graphs).—Instructors to be announced.

*Prerequisite: Any introductory programming course.*

*3 points. Hours to be arranged.*

*VI*

## **CSC W 3205x, CSC W 3205y. Discrete Mathematics II: Introduction to Discrete Structures.**

Inductive definitions, sets and relations, elementary logic, boolean algebra, and elementary algebraic structures.—F. Franek.

*3 points. Hours to be arranged.*

## **CSC W 3232x, CSC W 3232y. Fundamental Algorithms.**

Continuation of W 3131. Pattern matching, lexical analysis, parsing, backtracking, divide and conquer, generating combinatorial objects, graph searching, spanning trees, external sorting and searching, 2-3 trees, balanced trees, B-trees, files; elements of data base design; other topics as time permits. Analysis of algorithms is stressed throughout.—Instructors to be announced.

*Prerequisite: W 3131.*

*3 points. Hours to be arranged.*

## **CSC W 3244x, CSC W 3244y. Probability and Matrix Models.**

Mathematical methods and their application to probabilistic and linear models. Probability theory, stochastic models, solutions to systems of linear equations, linear programming, and game theory.—F. Franek.

*Prerequisite: CSC W 3203.*

*3 points. Hours to be arranged.*

## **CSC W 3251x. Scientific Computation I.**

Major topics of scientific computations: properties of floating point arithmetic, numerical stability and conditioning, interpolation, integration and approximation of scalar functions, nonlinear equations and ordinary differential equations. Covers also computational methods of linear algebra for solving systems of linear equations, linear least squares and the eigen-values. The computational complexity of some of these problems will be discussed. The computer implementation of algorithms is stressed.—H. Wozniakowski.

*Prerequisites: Calculus I and II, Mathematics E 1210, Engineering Mathematics E 3101.*

*3 points. Hours to be arranged.*

## **CSC W 3251y. Scientific Computation II.**

A continuation of CSC W 3251x.—G. Wasilkowski.

*Prerequisite: CSC W 3251x.*

*3 points. Hours to be arranged.*

## **CSC W 3261y. Computability and Models of Computation.**

Formal models of computation and properties; Turing machines, recursive functions; Church-Turing thesis; decidability and undecidability; recursively enumerable sets; concepts and properties of formal languages; regular, context-free, context-sensitive, phrase-structured; grammars; relationships to automata; finite state, push-down, linear bounded, Turing machines.—Instructor to be announced.



*Prerequisite: W 3131.*

*3 points. Hours to be arranged. VI*

## **CSC W 3823x, CSC W 3823y. Digital Logic.**

Number representation, boolean algebra, combinatorial logic, Karnaugh maps, circuit minimization, NAND and NOR logic, fault detection, implementation of gates, integrated circuits, pass transistor networks, flip-flops, latches, adders, counters and other basic functional circuits, sequential circuits, clocking.—Instructors to be announced.

*Prerequisite: Any introductory programming course.*

*3 points. Hours to be arranged.*

## **CSC W 3824y. Computer Organization I.**

Overview of computer organization, register transfer sequences, micro-operations, control functions, instruction codes, bus organization, ALU's, interrupts, memory, pipelining, I/O.

*Prerequisite: CSC W 3823.*

*3 points.*

*x: Hours to be arranged. D. Shaw.*

*y: Hours to be arranged. T. Bashkow.*

## **CSC W 3998x, CSC W 3998y.**

### **Undergraduate Projects in Computer Science.**

This course may be repeated for credit, but not for a total of more than 3 points of degree credit. Independent project involving laboratory work, computer programming, analytical investigation, or engineering design.—Staff.

*Prerequisite: Approval by a faculty member who agrees to supervise the work.*

*Up to 3 points. Hours to be arranged.*

## **CSC W 4114y. Assembly Language and Systems Programming.**

Assembly language programming; assemblers and macro processors; linkers and loaders; elements of job control language; large-scale programming environment.—J. Gielchinsky. *Not allowed for credit if W 3123 is taken.*

*Prerequisite: Any introductory course in computer programming.*

*Not offered in 1986-87.*

*3 points.*

## **CSC W 4115x. Programming Languages and Translators, I.**

Introduction to programming language design and syntax, the contour model of semantics, Algo 60, Algol 68, Lisp, functional programming. Introduction to compiler structure and construction, parsing techniques, code generation and optimization.—G. Kaiser.

*Prerequisite: CSC W 3131.*

*3 points. Hours to be arranged.*

## **CSC W 4117y. Programming Languages and Translators, II.**

Continuation of Course W 4115. Techniques

in computer language implementation; application of formal language theory to design of compilers; implementation of language features such as nested procedures, reentrancy and recursion; code optimization; run-time storage organization.—Instructor to be announced.

*Prerequisites: W 4115 and W 3261.*

*Not offered in 1986-87.*

*3 points.*

## **CSC W 4118x, CSC W 4118y. Operating Systems.**

Design and implementation of operating systems. Topics include process management, process synchronization and interprocess communication, memory management, virtual memory, interrupt handling, processor scheduling, device management, I/O, and file systems. Case study of the UNIX operating system. A programming project will be required.—G. Maguire.

*Prerequisites: CSC W 3131, CSC W 3152.*

*3 points. Hours to be arranged.*

## **CSC W 4119x, CSC W 4119y. Computer Networks and Data Bases.**

The design of system software to support computer network and database management systems, distributed data bases, layered protocol architecture, distributed operating systems. A programming project will be required.—Y. Yemini.

*Prerequisite: CSC W 4118.*

*3 points. Hours to be arranged.*

## **CSC W 4203x. Graph Theory.**

General introduction to graph theory, emphasizing algorithms: Eulerian paths and circuits, shortest paths, trees, minimum spanning trees, the number of spanning trees, depth-first search, network flows, leipartite matching and the marriage problem, the transportation problem, minimum-core flows, other topics as time permits.—Instructor to be announced.

*Prerequisite: W 3203.*

*Not offered in 1986-87.*

*3 points.*

*VI*

## **CSC W 4205x, CSC W 4205y. Combinatorial Theory.**

Permutations and combinations, generating functions, recurrence relations, the inclusion-exclusion method. Polya's enumeration methods. Other topics as time permits.—Instructor to be announced.

*Prerequisites: CSC W 3203 and a course in calculus.*

*Not offered in 1986-87.*

*3 points.*

## **CSC W 4231x. Analysis of Algorithms, I.**

Course E 6232 is a continuation of this course.

# Computer Science

Some of the topics described below will not be covered until E 6232. Representation and generation of combinatorial objects; methods for the analysis of algorithms; counting and asymptotic evaluation; analysis of sorting, searching, algorithms on graphs, operations on strings, arithmetic operations, matrix operations, Fourier transform; models of computation; the Turing machine model, the random-access model, circuit complexity and the VLSI model; probabilistic algorithms; elements of abstract complexity theory; complexity hierarchies; polynomial and NP problems; lower bounds on the complexity of various problems in various models; worst-case and average behavior of algorithms; diophantine complexity; applications to cryptography and public key systems; linear programming and its complexity; the simplex and Khachiyan methods; average behavior of the simplex method. Other topics as time permits.—Z. Galil.

*Prerequisites:* W 3131, W 3203.

3 points. Hours to be arranged.

## **CSC W 4241x. Numerical Algorithms and Their Complexity, I.**

Modern theory and practice of computation on digital computers. Covers design and analysis of numerical algorithms. Techniques for analyzing computational complexity and errors. Solutions of non-linear equations, polynomial equations, linear systems, interpolation, approximation, eigenvalues and eigenvectors, optimization, ordinary and partial differential equations. Some of these topics are covered in the sequel, CSC W 4242y.—J. Traub.

*Prerequisite:* Knowledge of programming language. Some knowledge of differential equations and linear algebra is desirable.

3 points. Hours to be arranged. VI

## **CSC W 4242y. Numerical Algorithms and Their Complexity, II.**

A continuation of CSC W 4241x.—G. Wasilkowski.

*Prerequisite:* CSC W 4241x.

Not offered in 1986-87.

3 points. VI

## **CSC W 4701x, CSC W 4701y. Artificial Intelligence.**

This course is designed to give a senior level student a broad understanding of the basic techniques in use today for building intelligent computer systems. State-space representations, problem reduction, means-end analysis, and/or graphs. Heuristic searching: depth-first, breadth-first, best-first, hill-climbing, divide and conquer, minimax,  $\alpha$ — $\beta$ ; predicate calculus, resolution theorem proving; Horn clause theorem provers; AI

systems and languages; goals and contexts; issues of knowledge representation; learning and concept formation; LISP programming; other topics as time permits.

*Prerequisite:* W 3131.

3 points.

x: Hours to be arranged. S. Stolfo.

y: Hours to be arranged. K. McKeown.

## **CSC W 4841y. Introduction to VSLI.**

M. Foster.

*Prerequisites:* CSC W 3261 and CSC W 3824.

3 points. Hours to be arranged.

## **CSC W 4705y. Natural Language Processing.**

An introduction to the artificial intelligence approach to human language processing. Topics such as conceptual representation, story understanding, language generation, question answering, and the relation between computer models and cognitive psychology. Computer exercises in several of these areas. Some prior or concurrent exposure to AI and LISP would be helpful.—K. McKeown.

*Prerequisite:* W 3131.

3 points. Hours to be arranged.

## **CSC G 4801x. Mathematical Logic.**

Introduction to mathematical logic. Fundamental notions of set theory and recursion theory; detailed discussion of propositional and predicate logic; completeness, (un-)decidability, and theorem-proving.—Instructor to be announced.

*Prerequisite:* Permission of the instructor.

3 points. Hours to be arranged. VI

## **CSC W 4995x, CSC W 4995y. Special Topics in Computer Science.**

Special topics arranged as the need and availability arise. Topics are usually offered on a one-time basis. This course may be repeated for credit.—Instructor to be announced.

*Prerequisite:* Permission of the instructor.

3 points. Hours to be arranged.

## **CSC W 4996x, CSC W 4996y. Special Topics in Computer Science.**

A continuation of Course W 4995, when the special topic is to be offered over two semesters.—Instructor to be announced.

*Prerequisite:* Permission of the instructor.

3 points. Hours to be arranged.

## **Computer Science-Philosophy G 4802y. Mathematical Logic II.**

Axiomatic set theory: ordinals, cardinals, the axiom of choice, models of set theory. Definability; hierarchies of sets of integers. Connections between set theory and theory of computability.—Instructor to be announced.

*Prerequisite:* G 4801 or equivalent.

3 points. Hours to be arranged.



# Dance

Office: 204 Barnard Hall Annex

Telephone: 280-2995

**Associate Professor**

Sandra Genter (Chairman)

**Adjunct Associate Professors**

Anna Kisselgoff, Tobi Tobias

**Senior Associate**

Janet Soares

**Associates**

Janis Ansley-Ungar, Cynthia Novack

**Lecturer**

Elisabeth Fleischer

The Barnard Dance Department offers studio classes in modern dance, ballet, tap dance, and jazz. In addition, it offers skilled dancers the opportunity to perform in workshop presentations, in concerts, and in programs integrated with theatre productions and those of other departments in the College. It sponsors symposia, master classes conducted by guest artists, and other special events. Interested students should confer with the dance faculty.

In keeping with the philosophy of liberal education, the dance course offerings aim to provide students with both conceptual and technical background in the craft of the art form today, as well as an understanding of its historical development. After graduation, a student interested in performance, choreography, or critical writing would continue to develop as an artist through the practice of the craft. Those interested in teaching, in dance therapy, in historical research, or in the specialized systems of dance notation would pursue further study in graduate school or in a special institute.

Students looking toward a career in dance performance or choreography should consult the announcement on the Program in the Arts, Page 77, and should discuss their plans with the department chairman as soon as possible.

**REQUIREMENTS FOR THE MAJOR (Program in the Arts)**

Students wishing to major in Dance within the Program in the Arts are required to take the following thirteen courses:

- Arts BC 3031  
*Imagery and Form in the Arts*
- Arts BC 3351  
*Junior Colloquium*
- Arts BC 3591  
*Senior Seminar*

- Dance BC 2561, BC 2562  
*Dance Workshop I, II*
- Dance BC 2563, BC 2564  
*Dance Composition*
- Dance BC 2565, BC 2566  
*History of Dance*
- Dance BC 2567  
*Fundamentals of Music for Dancers*
- Dance BC 3571, BC 3572  
*Dance Workshop III, IV*
- Dance BC 3574  
*Contemporary Choreographers and their Works*

# Dance

## REQUIREMENTS FOR THE MINOR

A total of 6 courses to be selected in consultation with the department chairman are required for the minor. The selection must include three from courses BC 1555, BC 2561, BC 2562, BC 2563, BC 2564 and BC 3571, BC 3572; and three from BC 2565, BC 2566, BC 2567, BC 2568, BC 3574 and BC 3576.

## COURSES OF INSTRUCTION

### **DAN BC 1551x, DAN BC 1552y.**

#### **Modern Dance Technique and Theory.**

Studio work in intermediate modern dance technique, including study of the elements of movement based on the theories and techniques of selected modern dance artists. Emphasis is on experiencing dance; readings, films, and discussion accompany the studio work.

*Prerequisite: Intermediate skill level in modern dance technique.*

*2 points. x: Tu Th 4:10-6:00. S. Genter.*

*y: M W 4:10-6:00. C. Novack.*

### **DAN BC 1553x, DAN BC 1554y. Ballet Technique and Theory.**

Studio work in intermediate ballet technique, including study of the components of movement using examples selected from various ballet traditions. Emphasis is on experiencing ballet as a dance technique. Comparison of the styles of the different schools through the study of variations; readings, films, and discussion accompany the studio work.—J. Ansley.

*Prerequisite: Intermediate skill level in ballet technique.*

*2 points. M W 4:10-6:00.*

### **DAN BC 1555y. Ensemble Dance Repertory.**

The learning of excerpts and an entire dance work from the ensemble repertory of major choreographers as well as a commissioned work by a professional choreographer-in-residence. Introduction to reading Labanotation. Films, videotapes, readings, and discussion accompany the studio work.—J. Soares.

*Prerequisite: Intermediate skill level in ballet or modern dance.*

*2 points. F 2:10-5:00.*

## **DANCE WORKSHOPS: ANALYSIS OF STRUCTURE AND FUNCTION IN DANCE.**

Studio work in ballet and modern dance technique, plus a weekly session of lecture/discussion. Emphasis on either ballet or modern dance; all students must schedule five studio classes per week in addition to the lecture/discussion session.

### **DAN BC 2561x. Dance Workshop I.**

Functional anatomy for the dancer; study of the structural and mechanical principles of human movement. Assignments include readings and keeping a journal.—S. Genter.

*Prerequisite: Intermediate skill in either ballet or modern dance.*

*4 points. F 12:30-2:00, plus studio classes as described above.*

### **DAN BC 2562y. Dance Workshop II.**

Analysis of space, time, and force in dance movement, including exploration of how these elements operate in producing dance style. Assignments include readings, keeping a journal, and developing short movement studies.—S. Genter.

*Prerequisite: Intermediate skill in either ballet or modern dance.*

*4 points. F 12:30-2:00, plus studio classes as described above.*

### **DAN BC 3571x. Dance Workshop III.**

Advanced analysis of movement with emphasis on interrelationships and varying uses of rhythm, space, and dynamics for the developing dancer. Assignments include learning excerpts from dance repertory, readings, keeping a notebook, and presentations of individual research for discussion.—J. Soares.

*Prerequisites: Dance BC 2561 and BC 2562.*

*4 points. F 12:30-2:00, plus studio classes as described above.*

### **DAN BC 3572y. Dance Workshop IV.**

Advanced analysis of the relationship of technique to style in dance movement through the study of specific dance works. Assignments include study of the materials through readings, films, and video tapes; keeping a notebook with analysis of works; and performance of the dances, with students responsible for lighting and costuming the presentation.—J. Soares.

*Prerequisites: Dance BC 2561, BC 2562, and BC 3571.*

*4 points. F 12:30-2:00, plus studio classes as described above.*

### **DAN BC 2563x. Form in Dance Composition.**

Development of dance form through the manipulation, according to formal compo-



# Dance

sition principles, of rhythm, energy and design in movement.—J. Soares.

*Prerequisite: Facility in dance technique. Permission of the instructor required. Enrollment limited to 12 students.*

*3 points. M W 1:10-2:25.*

## **DAN BC 2564y. Content in Dance Composition.**

Research in the source materials of dance composition and exploration of their uses in choreography, including gesture, movement texture, rhythmic structure, movement shape, and literary ideas. Emphasis on unity of style in the work of each student.—J. Soares.

*Prerequisite: Facility in dance technique. Permission of the instructor required. Enrollment limited to 12 students.*

*3 points. M W 1:10-2:25.*

## **DAN BC 2565x, DAN BC 2566y. History of Dance.**

History and aesthetics of dance explored through film, slides, readings, and studio demonstration. Autumn Term: dance as ritual, dance in antiquity, folk and ethnic dance forms, and dance in the theater of the East. Spring Term: ballet and modern dance from the Renaissance to the present time.—C. Novack.

*3 points. Tu Th 10:35-11:50. I/H*

## **DAN BC 2567x. Fundamentals of Music for Dancers.**

An intensive study of musicianship skills and musical literacy designed for students of dance. Analysis of the elements of rhythm, tonality, musical structure, texture and style, with laboratory work in ear-training, pitch reading, rhythm skills, score-reading and elementary composition.—E. Fleischer.

*Alternate years. Offered in 1986-87.*

*3 points. F 2:10-4:00.*

## **DAN BC 2568y. Dance and Movement: An Anthropological Approach.**

An investigation of the theories and methods used to observe and analyze dance and movement in symbolic and social contexts. Critical examination of texts from the literature of anthropology and of dance. Course includes film-viewing, practice in making observations, and a fieldwork project. Open to students in dance, anthropology, and related fields.—C. Novack.

*Alternate years. Not offered in 1986-87.*

*3 points.*

## **DAN BC 3574y. Contemporary Choreographers and Their Works.**

Form, style and content of selected contemporary choreographers. Sources include film, videotape, attendance at rehearsals and concerts, and interviews.—A. Kisselgoff.

*Alternate years. Not offered in 1986-87.*

*3 points.*

## **DAN BC 3576y. Dance Criticism.**

Intensive practice in writing about dance. Readings drawn from nineteenth- and twentieth-century dance criticism. Observation includes weekly performances and classroom videotape sessions.—T. Tobias.

*Prerequisite: facility in writing, sample of which must be submitted to Dance Office prior to first class meeting. Permission of the instructor required. Enrollment limited to 12 students. Alternate years. Offered in 1986-87.*

*3 points. M 4:10-6:00.*

## **STUDIO DANCE COURSES**

Courses listed below may be offered in fulfillment of the physical education requirement.

For information regarding time and place of classes and instructors, consult the Directory of Classes for the appropriate semester.

### **Modern Dance**

Technique of contemporary dance with particular emphasis on good alignment and an understanding of the principles of body movement; opportunities for experiments in improvisation and in creating movement phrases.

### **DAN BC 1330x, DAN BC 1330y. Beginning Modern Dance. (A)**

### **DAN BC 1331x, DAN BC 1331y. Low Intermediate Modern Dance. (B)**

### **DAN BC 2332x, DAN BC 2332y. Intermediate Modern Dance. (C)**

### **DAN BC 3333x, DAN BC 3333y. Advanced Modern Dance. (D)**

### **Ballet**

Technique of classical ballet.

### **DAN BC 1135x, DAN BC 1135y. Beginning Ballet. (A)**

Previous study of another dance style strongly recommended before beginning ballet.

# Dance

**DAN BC 1136x, DAN BC 1136y. Low Intermediate Ballet. (B)**

**DAN BC 2137x, DAN BC 2137y. Intermediate Ballet. (C)**

**DAN BC 3138x, DAN BC 3138y. Advanced Ballet. (D)**

## **Jazz Dance**

Incorporation of ballet and modern dance technique in the distinctive style of jazz dance.

**DAN BC 1247x. Low Intermediate Jazz Dance. (B)**

**DAN BC 2248y. Intermediate Jazz Dance. (C)**

## **Tap Dance**

Basic tap dance steps and dances of traditional tap styles, including buck, soft shoe, and rhythm buck.

**DAN BC 1446x. Beginning Tap Dance. (A)**

**DAN BC 2447y. Intermediate Tap Dance. (C)**





# Economics

Office: 4A Lehman Hall

Telephone: 280-3454

## Professors

Duncan Foley, William Lazonick, Deborah Milenkovitch (Chairman)

## Associate Professor

André Burgstaller

## Assistant Professors

Cecilia Conrad, Jayasri Dutta,<sup>2</sup> Gikas Hardouvelis

## Adjunct Assistant Professors

Joan Greenbaum, Patricia Linton

Other officers of the University offering courses listed below:

## Professors

Philip D. Cagan, Arnold Collery, Ronald E. Findlay, Seymour Melman (*Industrial and Management Engineering*), Jacob Mincer, Robert Mundell, James I. Nakamura, Hugh Patrick (*Graduate School of Business*), Harold Watts, Stanislaw Wellisz

## Associate Professors

Maurice Obstfeld, Andrew Weiss

## Adjunct Associate Professors

Carl Riskin, Marvin Weiss

## Assistant Professors

Joseph G. Altonji, Ralph Braid, Nicholas S. Economides, D. Holtz-Eakin, John E. Kambhu, Martin Osborne, Michael Woodford,<sup>1</sup> Asad Zaman

## Adjunct Assistant Professor

Michael Edelstein

## Lecturer

Mohammed Yeganeh

<sup>1</sup>Absent on leave, 1986-87

<sup>2</sup>Absent on leave, Spring Term

The Department of Economics offers a broad course of study in economic theory and applied economics. The study of economics is an important foundation for a student's general understanding of modern history and society. The major programs in economics also prepare students for graduate work in economics, business, law, public administration, international relations and related fields, as well as for careers in business, finance, and government. The aim of the Barnard program is to foster a critical understanding of economics and its relations to other disciplines in the course of developing students' mastery of modern economic theory and tools of analysis.

Students planning to major in economics or political economy must complete Economics BC 1001 and BC 1002 before the beginning of their junior year. Students should complete all major requirements before they begin to write their senior essays.

For information regarding credit for advanced placement, students should consult the department chairman.

# Economics

## REQUIREMENTS FOR THE MAJOR

There are two tracks for the major in economics equal in rigor and number of courses required, but different in scope and focus. The track in Economics will prepare students with the analytical, mathematical, and economic tools now expected of entering graduate students in economics and useful for graduate study in related fields such as business. The track in Political Economy embraces some techniques of contemporary analysis but emphasizes the rediscovery of the roots and traditions of economic thought and focuses on interconnections between social forces, political institutions, and economic power. This track constitutes an excellent preparation for a variety of professional schools and careers.

Prospective majors should discuss their programs with any member of the department no later than their sophomore year. At the time of declaring a major the student also chooses a major adviser who will advise her as to choice of program and courses, and help in the choice of a senior essay topic and adviser.

Students who wish to complete a double or joint major including economics should consult the chairman of the department as early in their planning as possible.

### Economics

The Economics major requires 2 courses in Calculus and 10 in Economics, including

Economics BC 1001, BC 1002	<i>Introduction to Economics</i>
Economics BC 3033	<i>Intermediate Macroeconomic Theory</i>
Economics BC 3035	<i>Intermediate Microeconomic Theory</i>
Economics V 1411	<i>Introductory Probability and Statistics for Economics</i>

3 electives, 2 of which require Economics BC 1001-BC 1002 as a prerequisite; and Economics BC 3061-BC 3062.

### Political Economy

The Political Economy major requires 12 courses, including

Economics BC 1001, BC 1002	<i>Introduction to Economics</i>
Economics BC 3034	<i>Intermediate Macroeconomic Theory</i>
or	
Economics BC 3035	<i>Intermediate Microeconomic Theory</i>
Economics BC 3041	<i>The Theoretical Foundations of Political Economy</i>
Economics BC 3042	<i>The Policy Applications of Political Economy</i>

5 electives, including 2 Economics courses that require Economics BC 1001 and BC 1002 as prerequisites, and an upper-level course in Political Science; and Economics BC 3061, BC 3062.

Political Economy majors must have their elective programs approved by their major advisers and file a major elective form with the department no later than registration of the first semester of their senior year.

Political Economy majors who wish to take International Economics, Industrial Organization, Labor Economics, Comparative Economic Systems or Public Finance in their elective programs should take Intermediate Microeconomic Theory. Students who wish to take electives in Monetary Economics, Development, or International Finance should take Intermediate Macroeconomic Theory.

Political Economy majors who plan to go to graduate school in Business or in International Relations with an Economics concentration should take one semester of credit college math (either pre-calculus or calculus), both Intermediate Theory courses, and Economics V 1411.



# Economics

Political Economy majors who plan to go to graduate Ph.D. programs in Economics should take one year of calculus, both Intermediate Theory courses, and Economics V 1411 and Econometrics among their Economics electives.

## Mathematics Training for the Major

The department expects all majors to have a working knowledge of arithmetic, high-school algebra, and the fundamentals of analytic geometry. Beyond that, we highly recommend that majors take at least two semesters of calculus (required of economics-track majors). *General information for Economics students (available at the department office) contains specific departmental suggestions concerning appropriate mathematics courses.*

## REQUIREMENTS FOR THE MINOR

The minor in economics requires 5 courses, including Economics BC 1001, BC 1002, BC 3033 or BC 3034 or BC 3035, or an equivalent, and two electives, one of which has Economics BC 1001, BC 1002 as prerequisite.

## COURSES OF INSTRUCTION

Barnard Economics BC 1001 and BC 1002 are equivalent to Columbia Economics W 1104 and 1103, Barnard Economics BC 3033 and BC 3034 to Columbia W 3213, and Barnard BC 3035 to Columbia W 3211.

### GENERAL COURSES

Courses listed under this heading may be taken without previous study of economics.

#### ECO BC 1001x, ECO BC 1001y.

##### Introduction to Economics.

The department posts sign-up sheets for admission to sections of Economics BC 1001 and BC 1002 outside Lehman 4A. For Autumn Term courses, these are posted March 15, and for Spring Term courses, November 1.

Basic concepts of economic analysis, with emphasis on the aggregate economy; essentials of supply and demand, national income and its determination, United States economic institutions, government, finance and monetary economics, economic growth and inequality.

(Macroeconomic Principles)—Staff.

*Enrollment limited to 40 students per section.*

*See department for sign-up sheets.*

*3 points.*

*x: Section I M W 4:10-5:25.*

*Section II M W 1:10-2:25.*

*Section III Tu Th 10:35-11:50.*

*Section IV Tu Th 1:10-2:25.*

*y: Section I Tu Th 10:35-11:55.*

*Section II Tu Th 1:10-2:25.*

*V/S*

#### ECO BC 1002x, ECO BC 1002y.

##### Introduction to Economics.

Basic concepts of economic analysis, with emphasis on resource allocation: determination of price and income distribution through supply and demand, market structures, international economics, problems of developing nations, and alternative economic systems.

(Microeconomic Principles)—Staff.

*BC 1001 is not a prerequisite for BC 1002.*

*Enrollment limited to 40 students per section.*

*See department for sign-up sheets.*

*3 points.*

*x: Section I M W 4:10-5:25.*

*Section II Tu Th 10:35-11:50.*

*y: Section I Tu Th 2:40-3:55.*

*Section II Tu Th 10:35-11:50.*

*Section III M W 1:10-2:25.*

*Section IV M W 4:10-5:25.*

*V/S*

## CONTEMPORARY PROBLEMS COURSES

The analysis of contemporary problems using institutional and traditional approaches.

*Prerequisite: One course in economics or sophomore standing.*

#### ECO BC 2010x. Sex, Discrimination, and the Division of Labor.

An introduction to the role of women in the economy, including the productive uses of women's labor in the labor market, housework and childbearing; role of government and unions in structuring women's options, and some international comparisons.—C. Conrad.

*3 points. Tu Th 10:35-11:50.*

*V/S*

#### ECO BC 2013x. Economic History of the United States.

Economic transformation of America, colonial period to the present; growth in output, technological change, labor and business organization.—W. Lazonick.

*3 points. Tu Th 2:40-3:55.*

*V/S*

#### ECO BC 2014y. Topics in American Economic History.

*Not offered in 1986-87.*

*3 points.*

*V/S*

# Economics

## **ECO BC 2025x. World Economy.**

*Not offered in 1986-87.*

3 points.

V/S

## **ECO BC 2026y. Modern Capitalism.**

*Not offered in 1986-87.*

3 points.

V/S

## **ECO BC 2032y. Money and Capital Markets.**

Institutional nature and economics function of money and capital markets, primarily in U.S., but also "Euro-currency" credit markets. Each market described and related to broad issues of credit flows from savers to investors, interest rate determination, financial liquidity, etc.—P. Linton.

*Prerequisite: BC 1001 or BC 1002.*

3 points. Hours to be arranged.

V/S

## **SPECIALIZED COURSES**

### **ECO BC 3011x. Poverty and Income Distribution.**

Issues of definition and measurement relating to poverty and distribution of income in the U.S., analysis of cross-section and time-series data; alternative economic theories of poverty and income distribution; empirical tests; evaluation of policies on poverty and distribution, e.g., transfers, wage subsidies, training programs.—Instructor to be announced.

*Prerequisites: BC 1001 and BC 1002, or permission of the instructor.*

3 points. Tu Th 1:10-2:25.

V/S

### **ECO BC 3016y. Government Finance and Fiscal Policy.**

Principles of government expenditure and taxation; alternative theoretical perspectives on government's role in a "mixed economy"; structure of U.S. tax system, with emphasis on tax incidence, the effects of taxes on economic behavior, and detailed analysis of selected policy issues.—Instructor to be announced.

*Prerequisites: BC 1001, BC 1002, and BC 3035, or permission of the instructor.*

3 points. Tu Th 10:35-11:50.

V/S

### **ECO V 1411x. Introductory Probability and Statistics for Economics.**

Introduction to probability and statistics with applications to economics; descriptive statistics; basic probability theory; point and interval estimation; hypothesis testing; basic aspects of regression and correlation analysis.—J. Dutta.

*Prerequisite: Sophomore standing or permission of the instructor.*

3 points.

Lecture M W 1:10-2:25.

Laboratory M Tu or W 4:10-6:00, or W 2:40-3:55.

V/S

### **ECO BC 3018y. Introductory Econometrics.**

Introduction to specification and estimation of economic relationships using economic theory, data and statistical inference; single-equation estimation; multiple- and simultaneous-equation systems; econometric analysis of topics such as investment, wage and employment discrimination, etc.—G. Hardouvelis.

*Prerequisites: BC 1001 and BC 1002, and V 1411, or permission of the instructor.*

4 points.

Lecture M W 4:10-5:25.

Laboratory Tu 2:10-4:00 or

W 2:10-4:00.

V/S

### **ECO BC 3019y. Labor Economics.**

Factors affecting the allocation and remuneration of labor: population structure; unionization and monopsony; education and manpower training, mobility and information; sex and race discrimination; unemployment; and public policy.—G. DeFreitas.

*Prerequisites: BC 1001, and intermediate micro-economic theory or permission of the instructor.*

3 points. M W 1:10-2:25.

V/S

### **ECO BC 3029x. The Economics of Underdeveloped Areas.**

Theories of economic underdevelopment and development; selected problems in trade, foreign investment, technological change, industrialization, agriculture and state policy.—J. Dutta.

*Prerequisites: BC 1001, BC 1002 or permission of the instructor.*

3 points. M W 4:10-5:25.

V/S

### **ECO BC 3030x. Comparative Economic Systems.**

Planned, market, and mixed economies: the concept of an economic system; ownership, resource allocation, focus of decision-making, and motivation; comparison of theoretical systems, examples of enterprise organization and national economic planning in the Soviet Union, Yugoslavia, Cuba, Sweden, France, and Japan.

—D. Milenkovitch.

*Prerequisites: BC 1001, BC 1002 and Interme-*



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diates *Microeconomic Theory* or permission of the instructor.

3 points. M W 1:10-2:25. V/S

## **ECO BC 3031x. The Development of Economic Thought, 1770-1970.**

Instructor to be announced.

3 points. Hours to be arranged. V/S

## **ECO BC 3033x, ECO BC 3033y. Intermediate Macroeconomic Theory.**

Systematic and analytically oriented exposition of current macroeconomic theories of unemployment, inflation and international financial adjustments.

*Prerequisites:* BC 1001 and BC 1002 and a functioning knowledge of high-school algebra and analytical geometry.

*Primarily for majors in the Economics track.*

3 points. Students may not take BC 3033 for credit in addition to BC 3034.

x: Tu Th 10:35-11:50. —A. Burgstaller.

y: Tu Th 1:10-2:25. —Instructor to be announced. V/S

## **ECO BC 3034x. Intermediate Macroeconomic Theory.**

Mainstream macroeconomic models (in less mathematical detail than in BC 3033). Economic theories concerning business cycles, unemployment, inflation, and the distribution of income. The aim of the course is to make students more familiar with the main schools of economic thought, so that they may better assess how well such theories illuminate contemporary issues.

—Instructor to be announced.

*Prerequisites:* BC 1001 and BC 1002.

*Primarily for majors in the Political Economy track. Students may not take BC 3034 for credit in addition to BC 3033.*

3 points. Tu Th 1:10-2:25. V/S

## **ECO BC 3035x, ECO BC 3035y. Intermediate Microeconomic Theory.**

Behavior of markets, resource allocation, theories of production and cost, pricing of goods and services under alternative market structures, implications of individual decision-making for consumer demand and labor supply, income distribution, and welfare and public policy. Emphasis on problem solving.

3 points.

x: *Prerequisites:* BC 1001 and BC 1002, 2 semesters of calculus for economists (Calculus IE, IIE) or 3 semesters of regular calculus (Calculus I, II, III). This section is primarily for students in the Economics track. —J. Dutta.

M W 2:40-3:55. V/S

y: *Prerequisites:* BC 1001 and BVC 1002 and a functioning knowledge of high-school algebra and analytical geometry. This section is primarily for students in the Political Economy track. —D. Milenkovich.

Tu Th 10:35 - 11:50. V/S

## **ECO BC 3041x. The Theoretical Foundations of Political Economy.**

Intellectual origins of the main schools of thought in political economy. Classical political economy, Marxian economics, Neoclassicism, Keynesianism, and Monetarism. Theoretical controversies in twentieth-century political economy. —A. Burgstaller.

*Prerequisites:* BC 1001 and BC 1002.

3 points. Tu Th 2:40-3:55. V/S

## **ECO BC 3042y. The Policy Applications of Political Economy.**

Major policy perspectives within political economy; “laissez-faire” conservatism, middle-of-the-road reformism, and socialist revolution. Contemporary policy questions of inflation, income distribution and poverty, and foreign aid. —C. Conrad.

*Prerequisites:* BC 1001, BC 1002, and BC 3041.

3 points. Tu Th 1:10-2:25. V/S

## **ECO BC 3044y. U.S. Industrial Policy.**

Critical examination of alternative policies to improve U.S. economic performance. Trade policy, labor-management relations, technology development, national economic planning. Reference to past U.S. experience and comparisons with Japan and Western Europe. —Instructor to be announced.

*Prerequisites:* BC 1001 and BC 1002.

3 points. Tu Th 2:40-3:55. V/S

## **Economics-History ECH BC 3056x. History of Women's Work.**

Not offered in 1986-87.

3 points. IV/S or V/S

## **ECO BC 3061x, ECO BC 3062y. Senior Research Seminar.**

Discussions and conferences on the researching and writing of the senior essay. —Staff.

*Prerequisites:* BC 1001, BC 1002, BC 3033, BC 3035 and V 1411 or BC 1001, BC 1002, BC 3034, BC 3041, and BC 3042. See department for application forms.

4 points. Hours to be arranged.

## **ECO BC 3063y. Seminar: Topics in Economic Theory.**

The role of expectations in dynamic economic models. “Rational expectations” in relation

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to rationality, hypothesis testing, determinacy of equilibrium and the effectiveness of macroeconomic policy.—G. Hardouvelis.  
*Prerequisite: BC 3033 or BC 3034, or permission of the instructor. Enrollment limited to 15 students per section.*  
4 points. Th 4:10-6:00.

## **ECO BC 3064y. Seminar: Topics in Economic Policy.**

Instructor to be announced.  
*Prerequisites: BC 3033 or BC 3034, and BC 3035, or permission of the instructor.*  
4 points. Tu 4:10-6:00.

## **ECO BC 3099x, ECO BC 3099y. Independent Study.**

Staff.  
*Points to be arranged.*  
*Hours to be arranged.*

## **ECO W 4258y. Worker Management.**

*Prerequisite: W 3211.*  
*Not offered in 1986-87.*  
3 points. V/S

## **ECO G 4328y. Economic Development.**

Theory and practice of economic planning in the underdeveloped world: resource mobilization and foreign aid, capital movements, and industrialization strategies. A critical approach linking theory to contemporary case examples.—S. Wellisz.  
*Permission of the instructor required. Enrollment limited to 40 students.*  
3 points. Hours to be arranged. V/S

## **ECO W 4330x. Marxist Economic Theory.**

Critical examination of Marxist economic theory, using Marx's texts and more recent Marxist writings. Application of Marxist ideas to current economic problems. Labor theory of value. Marx's theory of money, class and exploitation, the expanded reproduction of capital, productive and unproductive labor, rent, the rate of profit.—D. Foley.

*Some previous work on Marxism desirable but not required.*  
3 points. M W 2:40-3:55. V/S

## **ECO W 4431y. Advanced Topics on Marxist Economics.**

*Prerequisite: W 4430 or the equivalent, or permission of the instructor.*  
*Not offered in 1986-87.*  
3 points.

## **ECO W 4524y. Economic Organization of Eastern Europe.**

Organization and performance of Soviet-type economies; pressure for change; comparison of reforms in Yugoslavia, Eastern Europe and the Soviet Union.—Instructor to be announced.

*Prerequisite: W 1103-W 1104.*  
3 points. M W 2:40-3:55. V/S

The following courses are described in the bulletin of Columbia College. Graduate courses are open to qualified undergraduates with the instructor's permission.

## **ECO W 3228x. The Urban Economy.**

R. Braid.  
*Prerequisite: W 3211.*  
3 points. Tu Th 6:10-7:25. V/S

## **ECO W 3251x, y. Industrial Organization.**

x: N. Economides; y: J. Kambhu.  
*Prerequisites: W 1103-W 1104 and W 3211.*  
3 points. x: M W 2:40-3:55.  
y: Tu Th 6:10-7:25.

## **ECO W 3257x. The War Economy.**

S. Melman.  
*Prerequisite: Economics W 1103 or the equivalent.*  
3 points. Hours to be arranged. V/S

## **ECO W 3261x, ECO W 3261y. Introduction to Accounting and Finance.**

Section I: Instructor to be announced; Section II: M. Weiss  
4 points.  
*Section I M W 7:10-9:00 p.m.*  
*Section II Tu Th 12:10-2:00.*

## **ECO W 3321y. Economic Development.**

J. Nakamura.  
*Prerequisite: Economics W 1103-W 1104 or the equivalent.*  
3 points. M W 4:10-5:25. V/S

## **ECO W 3411x, y. Labor Economics.**

x: A. Weiss; y: J. Mincer.  
*Prerequisite: W 3211.*  
3 points. x: M W 6:10-7:25.  
y: Tu Th 10:35-11:50. V/S

## **ECO W 3412y. Econometrics.**

A. Zaman  
*Prerequisites: V 1411 or the equivalent, Mathematics V 1111, V 1112 (formerly the V 1101, V 1102 section for economics majors), and W 3211 or W 3213.*  
3 points. Tu Th 6:10-7:25. V/S



# Economics

## ECO W 3414x. Introduction to Mathematical Economics.

Instructor to be announced.

*Prerequisites: Mathematics V1111-V1112 or the equivalent with the instructor's permission, and W 3211.*

3 points. Hours to be arranged. V/S

## ECO W 3711x, y. Monetary Economics and Policy.

x: Instructor to be announced.

y: Instructor to be announced.

*Prerequisite: W 3213.*

3 points.

x: M W 4:10-5:25

y: Tu Th 11:00-12:15. V/S

## ECO W 3863x. Public Economics.

D. Holtz-Eakin.

*Prerequisite: W 3211.*

3 points. Tu Th 2:40-3:55. V/S

## ECO W 3904x, y. International Trade.

*Prerequisite: W 3211.*

3 points.

x: Section I Tu Th 11:00-12:15. A. Collery.

Section II M W 11:00-12:15. R. Findlay.

y: Tu Th 2:40-3:55. C. Diaz-Alejandro. V/S

## ECO W 3905x, y. International Monetary Theory and Policy.

x: M. Obstfeld; y: R. Mundell.

*Prerequisite: W 3213.*

3 points.

x: Tu Th 9:05-10:20.

y: Tu Th 2:40-3:55. V/S

## ECO W 4311x. Economic History of the United States.

M. Edelstein.

*Prerequisite: W 3211 or the equivalent.*

3 points. F 10:00-11:50. V/S

## ECO G 4313x. Economic History of Europe.

M. Edelstein.

*Prerequisite: W 3211 or the equivalent.*

*Not offered in 1986-87.*

3 points. V/S

## ECO G 4320x. Economic History of Latin America to 1950.

*Not offered in 1986-87.*

3 points. V/S

## ECO G 4324x. Economic History of Japan.

J. Nakamura.

3 points. Tu 4:10-6:00. V/S

## ECO G 4325y. Economic Organization and Development of Japan.

H. Patrick.

*Prerequisite: the instructor's permission.*

3 points. Tu 4:10-6:00. V/S

## ECO W 4337x. Economic Organization and Development of the Middle East.

M. Yeganeh.

*Prerequisite: W 1103-1104 or the equivalent.*

3 points. Hours to be arranged. V/S

## ECO W 4450y. The Economics of Natural Resources.

R. Braid

*Prerequisite: W 3211 or equivalent, and one year of calculus.*

3 points. Tu Th 2:40-3:55. V/S

## ECO G 4527y. Economic Organization and Development of China.

C. Riskin.

*Prerequisite: W 1103-1104 or the equivalent.*

3 points. M 4:10-6:00. V/S

## ECO G 4801y. Economic Setting for Public Policy Making.

H. Watts.

*Primarily for candidates for the degree of Master of Public Administration.*

3 points. Tu 2:10-4:00 V/S

# Education

Office: 336B Milbank

Telephone: 280-2117, 5408, 5417

## Lecturer

Susan Riemer Sacks (Director)

## Instructor

Giselle Harrington

## Associates

Michele Puma, Katherine Knight Wilcox

This program is supervised by the Committee on Education:

### Professor of History and Education, Teachers College, Columbia University

Hazel Hertzberg

### Professor of Biological Sciences

Patricia L. Dudley

### Professor of English

Remington Patterson

### Associate Dean of Columbia College

Michael Rosenthal

### Associate Dean for Student Affairs, School of General Studies

Joseph Kissane

### Associate Professor of Psychology

Peter Balsam

The Barnard Education Program is open to Barnard, Columbia, and General Studies students who are interested in teaching children or adolescents on the elementary or secondary level, who are considering working with young people or adults in human service agencies, or who are preparing for careers related to education. The Education Program concentration is taken in conjunction with a major in an approved field of study and may constitute a minor. Interested students should consult with the Education Program faculty.

Applicants are accepted on the basis of good academic standing, evidence of interest in the field of education, and capacity for growth in areas vital to the teaching-learning experience. Students may apply for admission during the sophomore year, and applications are available in the Program office at the beginning of the Autumn Term.

The Education Program is approved by the New York State Education Department. Graduates of the Program are recommended for New York State Provisional Certification which makes them eligible for membership in the Interstate Certification Agreement, a reciprocal certification arrangement among thirty-one states. Consistent with the program requirements, certification is based on demonstration of competency in both academic and field settings. Students must pass the National Teachers Exam as part of the certification process.

## Elementary School Program

This track leads to the New York State Provisional Common Branch Certificate (N-6). Students participating in the elementary program must complete the following course of study:

One Psychology course, chosen from among:

Psychology BC 1105

Psychology BC 1127 or BC 1129

Psychology BC 1130 or BC 1132

Psychology BC 1134

*Psychology of Learning*

*Developmental Psychology*

*Human Memory and Learning*

*Educational Psychology*

One Foundations course, chosen from among:

Philosophy V 3758

Sociology V 3225

*Philosophy of Education*

*Sociology of Education*



# Education

Education BC 2032  
History BC 3461

*Contemporary Issues in Education*  
*Education in American History*

A third course from either of the above categories; and  
One methods course.

Education BC 2052

*Competency Development in*  
*Elementary Education*

During the junior year Spring Term, all students entering the elementary education program take Education BC 2052, which involves a classroom internship one morning per week.

## Secondary School Program

Programs leading to the New York State Provisional Secondary Certificate (7-12) are offered in the fields of English, Foreign and Ancient Languages, Mathematics, the Sciences, and Social Studies. Students participating in the secondary program must complete the following course of study:

One Psychology course, chosen from Psychology BC 1105, BC 1127 or BC 1129, BC 1130 or BC 1132, or BC 1134; and

One Foundations course, chosen from Philosophy V 3758, Sociology V 3225, Education BC 2032, or History BC 3461; and

One methods course.

All students entering the secondary education program take one methods course in the student's specific subject area during the junior year. The following course is available at Barnard:

English BC 3192

*Seminar in the Teaching of English*

Juniors interested in teaching secondary mathematics, science, social studies or foreign languages take the appropriate methods course offered at Teachers College:

TC 4010x, 4011x, 4012x

*Mathematical Teaching and*  
*Learning: The Formal Operational*  
*Stage*

TC 4044x

*Biology Methods and Curriculum*  
*Laboratory*

TC 4045x

*Earth and Environmental Science*  
*Curriculum and Methods*

TW 4020x

*Methods of Teaching Social Studies*

TL 4076x

*TESTOL Methodologies for K-12*

## Senior Program

Senior students in the Education Program participate in Education BC 3063, *Teaching in the Elementary or Secondary Schools*, the field-based student teaching experience for one semester during their last year. This course provides students with the opportunity to teach. Through close supervision, the student examines the teaching experience and the interrelationship between the subject area, child and human development, the role of the school in society, and the teacher as a decision-maker. Student teaching includes observation and teaching five mornings a week for the semester.

Education BC 3064, *Seminar in the Teaching-Learning Process*, is taken concurrently with student teaching. The seminar provides a forum for discussions of the principles and practices of classroom teaching and examines in depth the education process in our society. Student teaching and the seminar should be registered for as Education BC 3063x and BC 3064x in the Autumn term, or Education BC 3063y and BC 3064y in the Spring term. It is strongly advised that no more than two other courses be taken with student teaching and the seminar.

# Education

Senior year student teaching may conflict with other training opportunities at Barnard (e.g. Psychology BC 3465, BC 3466, assisting at the Center for Toddler Development). Students with these interests should arrange their schedules appropriately.

## Requirements for the Minor

The minor requires a minimum of 5 courses: Education BC 3063, Education BC 3064, one Methods course, one Foundations course, and one Psychology course from those courses cited above.

## COURSES OF INSTRUCTION

### EDU BC 2032x. Contemporary Issues in Education.

Study of controversial topics confronting education in the 1980's and their relation to contemporary society. Equity in learning experiences for girls and boys, the handicapped, bilingual and gifted students, will be examined. The impact of computers, technology, and values teaching on schooling will be addressed. Observation in classroom required.—S. Sacks.

4 points.

W 2:10-4:00.

### EDU BC 2052y. Competency Development in Elementary Education.

Methods of teaching reading and mathematics and techniques for integrating the core subjects into the elementary curricula examined through the experience of working with children in an elementary school classroom and the weekly Barnard seminar. Students serve an internship one morning a week in elementary classrooms.—K. Wilcox.

*This course should be taken in the Spring Term of the junior year. It is a prerequisite to student teaching in the elementary grades. Open to Education Program applicants and others with permission of instructor.*

4 points. W 2:10-4:00.

### EDU BC 3063x, EDU BC 3063y. Teaching in the Elementary or Secondary Schools.

Student teaching: classroom teaching in elementary or secondary schools and exploration of the interrelation between process, content, and values in the educational experience. (Student teaching requires a minimum of 20 class periods per week, each morning for one semester of the senior year.) —Staff.

*Prerequisite: Admission to Education Program.*

*Corequisite: BC 3064. Both BC 3063 and BC 3064 are required for teaching certification.*

*Enrollment limited to 30 students per year.*

4 points.

### EDU BC 3064x, EDU BC 3064y. Seminar in the Teaching-Learning Process.

Examination of principles of classroom teaching and educational process in our society. This seminar accompanies student teaching and provides guidelines for teaching reading and subject areas and workshop experiences related to the learning situations. Teaching skills are developed through individual supervision, conferences, and videotaping.—S. Sacks and G. Harrington.

*Prerequisite: Admission to Education Program.*

*Corequisite: B 3063.*

*Enrollment limited to 30 students per year.*

4 points. M 2:10-4:00.

### English ENG BC 3192y. Seminar in the Teaching of English.

English in the curriculum and the role of the English teacher; grammar, composition, literature, testing, grading.—E. Caughran.

*For students who plan to teach or to produce teaching materials. Students will observe classes in a local high school one morning a week.*

*Enrollment limited to 12 students.*

4 points. Tu 4:10-6:00.

### History HIS BC 3461x.

#### Education in American History.

A consideration of the place educational institutions, educational ideas, and educators have played in American life. Emphasis will be on the connection between education and social mobility.—B. Tischler.

*Prerequisite: Permission of the instructor.*

*Enrollment limited.*

4 points. W 2:10-4:00.

### Philosophy PHI V 3758x. Philosophy of Education.

Philosophical presuppositions of intellectual and moral education. Selected readings from Plato, Rousseau, Piaget, Dewey, Israel, Sheffler, and current periodical literature.—R. Tragesser.

*Not open to freshmen.*

3 points. Tu Th 1:10-2:25.



# Education

## **Sociology SOC V 3225y. Sociology of Education.**

Social organization of education in the United States, with emphasis upon primary and secondary schools: the school as a complex organization; the classroom as a learning environment; social factors in academic aspirations and achievement; selected innovations in educational practices; and problems in the relations between the school and the community.—H. Zuckerman.

*Permission of the instructor required.*

*3 points. Tu Th 1:10-2:25.*

Juniors interested in teaching secondary mathematics, science, social studies or foreign languages should take the appropriate methods course offered at Teachers College.

## **TC4010x, TC4011x, TC4012x. Mathematical Teaching and Learning: The Formal Operational Stage.**

*Three one-point courses. All required for mathematics methods.*

*3 points. Hours to be arranged.*

## **TW 4020x. Methods of Teaching Social Studies.**

H. Hertzberg.

*3 points. M 5:10-6:50.*

## **TL 4076x. TESTOL Methodologies for K-12.**

*3 points. Hours to be arranged.*

## **TC 4044x. Biology Methods and Curriculum Laboratory.**

O.R. Anderson.

*3 points. Th 5:10-6:50.*

## **TC 4045x. Earth and Environment Science Curriculum and Methods.**

W. Yasso

*3 points. Hours to be arranged.*



# English

Office: 417 Barnard Hall

Telephone: 280-2116

## Professors

Maire Jaanus, Ruth M. Kivette (Chairman), Joann Ryan Morse, Remington Patterson, Anne Lake Prescott, Barry Ulanov

## Visiting Professors

Samuel I. Mintz, Peter Shaw

## Adjunct Professor

Joy Chute

## Associate Professor

Elizabeth Dalton<sup>1</sup>

## Adjunct Associate Professors

Ann Birstein, Diana Chang, Janice Farrar Thaddeus<sup>1</sup>

## Assistant Professors

Christopher Baswell, Alfred Bendixen (Departmental Representative and Director of Freshman English), Cary Plotkin, Celeste Schenck, William Sharpe

## Adjunct Assistant Professors

Frank Brady, Barbara Ann Hill

## Associates

Elizabeth Caughran, Luz Castaños, Marjorie Housepian Dobkin, Quandra Prettyman

## Lecturers

Constance Brown, Anita Parzenczewski

## Instructors

Constance Colby, Timea Szell

## Assistant

Constance Budelis

<sup>1</sup>Absent on leave, 1986-87

The offering in English is designed to foster good writing, effective speaking, and heightened understanding of literary works that enrich our cultural heritage.

Students majoring in English are encouraged to develop their responsiveness to the literary imagination and their sensitivity to literary form through disciplined attention to language and to critical and scholarly methods.

Non-majors may satisfy the distribution requirement in literature by electing appropriate courses listed under LANGUAGE AND LITERATURE.

## REQUIREMENTS FOR THE MAJOR

A major program consists of at least ten courses planned in sequence:

1. In the sophomore or junior year, the student will complete three required courses: an introduction to the methods of literary analysis (BC 3193, *Critical Writing*), and an introduction to literary works of the Renaissance and the Enlightenment (BC 3159-BC 3160, *The English Colloquium*).
2. In addition, she will elect five advanced courses so distributed as to extend her knowledge of English and American literature of different periods. Two of these courses must be in literature before 1900 (BC 3153-BC 3179). She may select two of the five from courses BC 3103-BC 3145.
3. As a senior, she will complete advanced work in two seminars (BC 3997, BC 3998). For *one* of these seminars, a qualified senior major may request permission to substitute a Special Project in Writing, Speech, or Theatre (see BC 3996x, BC 3996y) *or* Independent Study (see BC 3999x, BC 3999y).



## REQUIREMENTS FOR THE MINOR

A minor consists of at least five English courses: BC 3155, *Chaucer*, or BC 3163 or BC 3164, *Shakespeare*, or BC 3167, *Milton*; two additional courses in literature before 1900 (BC 3153-BC 3179); and two electives.

Program in the Arts: Students interested in this Program should see the announcement on page 77 and should consult with the Program Chairman or a member of the Program Committee.

## COURSES OF INSTRUCTION

### INTRODUCTORY

#### ENG BC 1201x, ENG BC 1201y. Freshman English.

Practice in reading and writing through close examination of texts, regular assignments in composition, and discussion; frequent individual conferences with the instructor.—Director and Staff.

*Prescribed for all freshmen. May not be taken for pass/fail. 3 points.*

*Consult Department bulletin board for section times.*

#### ENG BC 1202x, ENG BC 1202y. Special Studies in Writing.

For students who want additional work in writing. Class workshop, individual assignments, weekly conferences. Section I (Autumn Term): primarily for students whose first language is not English.—C. Colby.

*Permission of the instructor required. May only be taken for pass/fail.*

*3 points.*

*x: Section I M W 12:00-12:50.*

*Section II M W 1:10-2:00.*

*y: Section I M W 1:10-2:00.*

### WRITING

Registration in each course is limited and the written permission of the instructor is required; signed departmental registration blanks are to be filed with Mrs. Budelis (417 Barnard Hall). Two writing courses may not be taken concurrently.

#### ENG BC 3103x, ENG BC 3104y.

##### Exposition.

Sections I and II (Autumn and Spring Terms): English composition above the first-year level. Techniques of argument and effective expression. Weekly papers. Individual conferences. Section III (Spring Term): Journalism and popular writing; methods of news writing and news judgment.

*3 points.*

*x: Section I M 2:10-4:00. Instructor to be announced.*

*Section II W 12:00-1:50. Instructor to be announced.*

*y: Section I M 2:10-4:00. Instructor to be announced.*

*Section II W 12:00-1:50. Instructor to be announced.*

*Section III W 2:10-4:00. F. Brady.*

#### ENG BC 3105x, ENG BC 3106y. Fiction and Non-Fiction.

Short stories and personal narrative.

*Prerequisite: Demonstration of some creative writing ability.*

*3 points.*

*x: Section I Th 4:10-6:00. M. Dobkin.*

*y: Section I Th 4:10-6:00. M. Dobkin.*

*Section II M 2:10-4:00. T. Szell.*

#### ENG BC 3107x, ENG BC 3108y.

##### Experiments in Writing.

Work in various styles and forms, with emphasis on the novel in Section I (Autumn and Spring Terms).

*3 points.*

*x: Section I Tu 2:10-4:00. A. Birstein.*

*y: Section I Tu 2:10-4:00. A. Birstein.*

*Section II Th 2:10-4:00. D. Chang.*

#### ENG BC 3110y. Poetry Writing.

Varied assignments designed to confront the difficulties and explore the resources of language through imitation, allusion, free association, revision, and similar techniques.—Instructor to be announced.

*3 points. Tu 2:10-4:00.*

#### ENG BC 3111x, ENG BC 3112y. Story Writing.

Advanced work in writing, with emphasis on the short story. Individual conferences with the instructor.—J. Chute.

*Prerequisite: Some experience in the writing of fiction.*

*3 points. Tu 4:10-5:00.*

*Conference hours to be arranged.*

#### ENG BC 3113x, ENG BC 3114y. Dramatic Writing.

Development of a dramatic situation in terms of short fiction, theatre, television, motion pictures, and radio. Completed works are discussed, given dramatic readings by the class, and recorded on tape and videotape. Autumn Term only.—Instructor to be announced.

*3 points. Tu Th 2:40-3:55.*

# English

## **SPEECH**

Registration in each course is limited, and to elect any course in speech a student must secure the written permission of the instructor.

### **ENG BC 3121x. The Uses of Speech.**

Training in voice production and clear articulation. Designed to improve the student's speech through drill, practice in reading aloud, the presentation of oral reports, and extemporaneous speaking.—E. Caughran.  
*3 points. Tu Th 2:40-3:55. Conferences with the instructor to be arranged.*

### **ENG BC 3122y. American and British Dialects.**

Study of the geographic, social, and vocational dialects of English, their importance in writing, ethnic studies, and acting performance.—E. Caughran.

*Not offered in 1986-87.*

*3 points.*

### **ENG BC 3124y. Oral Interpretation of Literature.**

Study of literary texts for oral performance. Fictive prose and poetry, with class projects exploring reading modes from informal presentation to reader's theatre.—E. Caughran.  
*3 points. Tu Th 2:40-3:55. Conferences with the instructor to be arranged.*

### **ENG BC 3127x. Public Speaking.**

Study of basic principles of informal and formal speaking, with emphasis on the selection and organization of materials, on audience psychology, and on effectiveness of delivery.—E. Caughran.

*3 points. Tu Th 10:35-11:50.*

### **ENG BC 3128y. Persuasive Speaking.**

Theory and practice of persuasive speaking; use of evidence and opinion, logic, and audience motivation in presentation of controversial views and current issues.—E. Caughran.

*3 points. Tu Th 10:35-11:50.*

## **THEATRE**

Registration in each course is limited, and to elect any course in theatre (except BC 3129, BC 3130) a student must secure written permission of the instructor.

### **ENG BC 3129x. History of the Theatre: Origins to the Restoration.**

Theatre history tracing theatre literature and practice through the Greek and Roman periods, the Middle Ages, and the Renaissance to the Restoration in England and seventeenth century in France.—L. Castaños.

*Enrollment limited to 40 students.*

*3 points. Tu Th 2:40-3:55.*

*I/H*

### **ENG BC 3130y. Modern Theatre: The Eighteenth Century to the Present.**

Theatre history beginning with continental theatre literature and practice in the eighteenth century and tracing developments and changes in contemporary practice. Readings in dramatic literature and major theoretical works.—L. Castaños.

*Enrollment limited to 40 students.*

*3 points. Tu Th 2:40-3:55.*

*I/H*

### **ENG BC 3131x, ENG BC 3132y. The Contemporary Theatre.**

Major developments in contemporary theatre focusing on the nature and treatment of the text, the actor's art, and the director's function.—L. Castaños.

*3 points. M W 2:40-3:55. Laboratory hours to be arranged.*

### **ENG BC 3133x. Basic Design for the Theatre.**

The basic concerns, methods, and tools of the designer, focusing on problems of conceptualization, the designer's encounter with the text, and the translation of concept into plastic stage image in set, costume, and lights. The course includes guest lecturers from professional theatre.—D. Parichy.

*3 points. Tu Th 2:40-3:55.*

### **ENG BC 3134x, ENG BC 3134y. Play Production.**

#### **x: I. Scenic Design.**

Study and practice of the basic elements of scenic design for the realization of dramatic texts in performance. The course includes guest lecturers from the professional theatre.—Instructor to be announced.  
*Prerequisite: ENG BC 3133 or permission of the instructor.*

*3 points. M W 2:40-3:55. Laboratory hours to be arranged.*

#### **y: II. Costume Design.**

Study and practice of the basic elements of costume design for the realization of the dramatic text in performance. The course includes guest lecturers from the professional theatre.—H. Van Kuiken.  
*Prerequisite: ENG BC 3133 or permission of the instructor.*

*3 points. M W 2:40-3:55. Laboratory hours to be arranged.*

#### **III. Lighting Design.**

Study and practice of the basic elements of lighting design for the realization of dramatic texts in performance. The course includes guest lecturers from the professional theatre.—D. Parichy.



*Prerequisite: ENG BC 3133 or permission of the instructor.*

*3 points. Tu Th 2:40-3:55. Laboratory hours to be arranged.*

## **ENG BC 3135x, ENG BC 3136y. Actor's and Director's Interpretation of Dramatic Literature.**

Practical study of Renaissance and Restoration dramatic literature for actors and directors. Basic problems of the actress as she encounters a text. Methods of script analysis for the actor and director. The course will include acting and directing projects by class members.—Staff.

*Prerequisite: ENG BC 3131 or ENG BC 3132 or permission of the instructor.*

*3 points. Tu Th 1:10-2:25. Laboratory hours to be arranged.*

## **ENG BC 3139x, ENG BC 3139y. Special Studies in Theatre.**

Special problems in the theatre for the actor or director. Advanced study at HB Studio, Stella Adler Conservatory, or other approved professional programs.—L. Castaños

*Prerequisite: ENG BC 3135, ENG BC 3136, and permission of the Director.*

*Mandatory pass/fail.*

*4 points. M 1:10-2:00, plus special hours to be arranged.*

## **LANGUAGE AND LITERATURE**

### **ENG BC 3140x, ENG BC 3140y. Seminars on Special Themes.**

Registration is limited.

*3 points.*

### **ENG BC 3140x. II. Explorations of Black Literature.**

Ranging from the eighteenth to the early twentieth century. The slave narrative, pamphleteers and propagandists; the anonymous lyric, folklore in the Black tradition. Writers include Wheatley, Douglass, Harper, Walker, Dunbar, Chesnut, and DuBois.—Q. Prettyman.

*Tu Th 10:35-11:50. II/H*

### **ENG BC 3140y. V. Fable and Fantasy.**

Selected works by nineteenth- and twentieth-century authors: Lewis Carroll, G.K. Chesterton, C.S. Lewis, and others. Their use of religious and philosophical fable, nonsense, and paradox; their creation of other worlds.—A. Prescott.

*M W 1:10-2:25. II/H*

### **ENG BC 3141x, ENG BC 3142y. Major English Texts.**

A general view of the history and variety of English literature through study of selected writers and their works. Autumn: Chaucer through Milton.—R. Patterson. Spring: Dryden through Eliot.—A. Schneider.

*3 points. M W 2:40-3:55. II/H*

### **English-Women's Studies EWS BC 3144y. Minority Women Writers in the United States.**

A study of the literature of twentieth-century minority women writers in the United States, with particular emphasis upon the works of Asian, Black, Hispanic, and Native American women. The works will be studied within a historical and cultural as well as literary framework.—Q. Prettyman.

*Permission of the instructor.*

*3 points. Tu Th 2:40-3:55. II/H*

### **English-Women's Studies EWS BC 3145x. The Female Protagonist: Readings in the French and English Novel.**

The heroine and the representations of a female destiny in selected works by women writers; the texts will be studied in conjunction with contemporary feminist criticism. Lafayette, Wollstonecraft, Austen, Sand, Brontë, Eliot, Colette, Wittig.

*3 points. Tu 4:10-6:00. III/H*

### **ENG BC 3154x. The Early Chaucer.**

*Book of the Duchess, Hous of Fame, Legend of Good Women, and Parlement of Foules*, with emphasis on *Troilus and Criseyde*; related texts by other writers.—C. Baswell.

*Alternate years. Offered in 1987-88.*

*3 points. II/H*

### **ENG BC 3155x. Chaucer.**

*The Canterbury Tales*.—C. Baswell.

*3 points. Tu Th 10:35-11:50.*

### **ENG BC 3158y. Medieval Literature.**

English and Continental literary works from the fourth to the fifteenth century, studied in the original or in translation.—B. Ulanov.

*Alternate years. Offered in 1987-88.*

*3 points.*

### **ENG BC 3159x-ENG BC 3160y. The English Colloquium.**

Major writers and literary works of the Renaissance and the Enlightenment examined in terms of leading ideas in those periods.

*Required of majors in the sophomore or junior year.*

*4 points.*

# English

## I. Imitation and Creation.

New ideas of the mind's relation to the world. New perspectives, the emergence of new forms, experimentation with old forms, and the search for an appropriate style.—J. Morse.

*M 2:10-4:00.*

## II. Reason and Imagination.

Relationship of the subjective and objective vision; reason and irrational states; portraits of the artist; the shift from authority to perception and from public to private forms.—C. Plotkin.

*Tu 2:10-4:00.*

## III. Skepticism and Affirmation.

Humanism, reformation, and revolution; the limits of human knowledge; the problem of evil; visions of perfection; reason and revelation.

*x: A. Prescott.*

*y: S. Mintz.*

*W 3:10-5:00.*

## IV. Ideas of Order and Disorder.

Form and structure achieved or defeated in the work of art and in the world; the rise of the man of letters and vernacular literature; the drama of self-transformation.—

B. Ulanov.

*Th 4:10-6:00.*

### ENG BC 3163x, ENG BC 3164y.

#### Shakespeare.

A critical and historical introduction to the comedies, histories, and tragedies of Shakespeare.—R. Patterson.

*3 points. M W F 11:00.*

*II/H*

### ENG BC 3165x. The Elizabethan

#### Renaissance.

Literature in the age of Elizabeth I. Sidney, Spenser, Shakespeare, and their contemporaries. Songs, the love sonnet, prose fiction, satire. Some attention to music and visual imagery.—A. Prescott.

*3 points. M W 1:10-2:25.*

*II/H*

### ENG BC 3166y. Seventeenth-Century

#### Prose and Poetry.

Classical traditions, Christian beliefs, the new science and the literary imagination: thought and style in English literature from Bacon, Donne, and Jonson to Marvell, Bunyan, and Dryden.—R. Kivette.

*Alternate years. Offered in 1987-88.*

*3 points.*

*II/H*

### ENG BC 3167y. Milton.

Close reading and critical study of *Paradise Lost*, *Paradise Regained* and *Samson Agonistes*, with some attention to minor poems and prose.—R. Kivette.

*3 points. Tu Th 9:10-10:25.*

*II/H*

### ENG BC 3169y. English Drama:

#### 900-1642.

English drama from its beginnings to the closing of the theatres. Medieval plays, the Tudor interlude, the major plays of the English Renaissance (excluding Shakespeare), with emphasis on Marlowe, Jonson, and Webster.—R. Patterson.

*3 points. M W 4:10-5:25.*

*II/H*

### ENG BC 3171x. The Novel.

The central English tradition, including works by Defoe, Richardson, Fielding, Sterne, Austen, Brontë, Dickens, George Eliot, and Hardy.—J. Morse.

*3 points. M W 11:00-12:15.*

*II/H*

### ENG BC 3173x. Eighteenth-Century

#### Literature, 1660-1740.

Tradition and innovation in satire, drama, the periodical essay, and the novel; readings in Dryden, Congreve, Pope, Swift, Defoe, Richardson, Fielding, and Gay.

—A. Schneider.

*3 points. Tu Th 9:10-10:25.*

*II/H*

### ENG BC 3174x. Eighteenth-Century

#### Literature, 1740-1800.

Tradition and innovation in a variety of forms, including works by Johnson, Boswell, Goldsmith, Sheridan, Fielding, Sterne, Wollstonecraft, Burns, and Blake.—J. Thaddeus.

*Alternate years. Offered in 1987-88.*

*3 points.*

*II/H*

### ENG BC 3176x. English Romanticism.

The thought and style of Wordsworth, Coleridge, Byron, Keats, and Shelley.—C. Plotkin.

*3 points. M W 2:40-3:55.*

*II/H*

### ENG BC 3177y. The Victorian Age

#### in Literature.

Prose and verse on problems of society and religion. Carlyle, Mill, Ruskin, Arnold, Newman, Huxley, Tennyson, Browning.—W. Sharpe.

*3 points. Tu Th 10:35-11:50.*

*II/H*

### ENG BC 3178x. Victorian Poetry and Criticism.

Poems by Tennyson, Browning, Arnold, Rossetti, Meredith, Morris, and Swinburne; some paintings by the Pre-Raphaelites and



others; critical opinions of Ruskin, Arnold, Pater, and Wilde.—W. Sharpe.

*Alternate years. Offered in 1987-88.*

*3 points. II/H*

## **ENG BC 3179x. American Literature before 1900.**

The formation and development of the American literary tradition with an emphasis on the major writers of the nineteenth century.

Readings include: Franklin, Irving, Emerson, Thoreau, Poe, Hawthorne, Melville, Whitman, Twain, Dickinson, James and Chopin.—

A. Bendixen.

*3 points. M W 1:10-2:25. II/H*

## **ENG BC 3180y. American Literature since 1890.**

Modern American fiction, poetry, and drama.

Works by Crane, Wharton, Cather, Anderson, Hemingway, Fitzgerald, Faulkner, Bellow, Frost, Eliot, Stevens, O'Neill, and others.—

A. Bendixen.

*3 points. M W 1:10-2:25. II/H*

## **ENG BC 3181x. American Fiction.**

American fiction of the nineteenth and twentieth centuries. Works by Melville, Hawthorne, James, Cather, Wharton, Hemingway, Faulkner, and others.—A. Bendixen.

*Not offered in 1986-87.*

*3 points. II/H*

## **ENG BC 3183x. Modern Literature and the Allied Arts.**

The focus and the vocabulary of the modern artist, examined and defined first in terms of literature, and then through a comparison with painting, music, the dance, and the motion picture.—B. Ulanov.

*Alternate years. Offered in 1987-88.*

*3 points.*

## **ENG BC 3185x. Modern British and American Poetry.**

The thought and style of Hopkins, Yeats, Frost, Robinson, Pound, Eliot, Stevens, and more recent writers; the literary movements with which they are associated.—B. Ulanov.

*3 points. Tu Th 2:40-3:55. II/H*

## **ENG BC 3186y. Modern Drama.**

The modern theatre and its makers from Ibsen to the present; its Renaissance and eighteenth-century antecedents.—B. Ulanov.

*3 points. Tu Th 2:40-3:55.*

## **ENG BC 3187y. American Writers and Their Foreign Counterparts.**

Selected nineteenth- and twentieth-century

American, European, and English works. Flaubert, James, Proust, Gide, Faulkner, and others.—E. Dalton.

*Alternate years. Offered in 1987-88.*

*3 points.*

## **ENG BC 3188y. The Modern Novel.**

Works by Hardy, James, Conrad, Lawrence, Joyce, and others.—J. Morse.

*Not offered in 1986-87.*

*3 points. II/H*

## **ENG BC 3189y. Post-Modern Literature.**

Writers since 1945, primarily English and American, and concepts of post-modern culture. Readings include Beckett, Borges, Pinter, Nabokov, Barthelme, and others.—M. Jaanus.

*3 points. M W 11:00-12:15.*

## **ENG BC 3191x, ENG BC 3191y. The English Conference.**

Various topics presented by visiting scholars in courses that will meet for three or four weeks at the beginning of each semester. Topics and instructors, with hours of meeting, will be announced by the department.—Visiting faculty.

*To be taken only for pass/fail.*

*1 point.*

## **ENG BC 3192y. Seminar in the Teaching of English.**

The place of English in the curriculum and the role of the English teacher; grammar, composition, literature, testing, and grading. Students will observe classes in a local high school one morning a week.—E. Caughran.

*For students who plan to teach or to produce teaching materials. Enrollment limited.*

*4 points. Tu 4:10-6:00.*

## **ENG BC 3193x, ENG BC 3193y. Critical Writing.**

The purpose of the course is to provide experience in the reading and analysis of literary texts and some knowledge of conspicuous works of literary criticism. Frequent short papers. All English majors are required to take course BC 3193 before the end of the junior year. Sophomores are encouraged to take it in the Spring Term before they officially declare their major. Transfer students should plan to take BC 3193 in the Autumn Term.—Staff.

*Registration in each section is limited.*

*x: I M 2:10-4:00.*

*II Tu 2:10-4:00.*

*III W 2:10-4:00.*

# English

*IV W 4:10-6:00.*

*V Th 2:10-4:00.*

*y: I M 2:10-4:00.*

*II Tu 2:10-4:00.*

*III Tu 4:10-6:00.*

*IV W 2:10-4:00.*

*V Th 2:10-4:00.*

## **ENG BC 3996x, ENG BC 3996y. Special Project in Writing, Speech, or Theatre.**

A senior major who has completed two courses in writing, speech, or theatre with distinction and who wishes to substitute a special project for one of the required senior seminars may request permission to register for a third course in her special field (3 points) and for BC 3996x or BC 3996y (1 point).

*Registration is limited.*

*Written permission of the instructor and of the department chairman is required.*

*1 point.*

## **ENG BC 3997x, ENG BC 3998y. Senior Seminars: Studies in Literature.**

Required of all majors, these seminars are designed to broaden knowledge of periods, writers, works, genres, and theories through readings. Class discussion, oral reports, and at least two research papers, one in BC 3997 and one in BC 3998. Students must have the written permission of the instructor.

*Enrollment limited to seniors. 4 points.*

### **ENG BC 3997x. II. Film and Word.**

The exchange of influences. The increasing dependence of film upon the literary imagination. The development of cinematic styles in novel, drama, and poetry. The silent and the speaking image in word and picture.—B. Ulanov.

*Tu 12:00-1:50.*

### **IV. Poets on Poetry.**

The nature and uses of poetry. What poets from the sixteenth to the twentieth century have had to say about the art they practice. Sidney, Shakespeare, Milton, Wordsworth, Arnold, Yeats, and Eliot will be among the poets considered.—R. Kivette.

*M 2:10-4:00.*

### **IX. Epic and Romance.**

Epic and romance, from the classical period to the twentieth century, and study of their competition and mutual influence. Readings from Greek romance, Latin epic, Chaucer, Malory, Spenser, Milton, the novel, science fiction.—C. Baswell.

*W 4:10-6:00.*

### **XI. The Grotesque.**

A study of the grotesque in Renaissance and modern literature, with readings in

drama and fiction, including Shakespeare, Middleton, Webster, and selected masques, as well as Stevenson, Kafka, Faulkner, Grass, Oë, and Toole.—B. Hill.

*F 10:00-11:50.*

### **XII. Studies in Comedy.**

The English comic tradition, with emphasis on nineteenth- and twentieth-century writers.—J. Morse.

*Th 2:10-4:00.*

### **XIII. American Women Writers.**

A study of major American women writers with special attention to feminism, regionalism, realism, and modernism. Authors will include Chopin, Freeman, Wharton, Cather, Porter, Welty, and Morrison.—A. Bendixen.

*Tu 4:10-6:00.*

### **XIV. The City as Metaphor.**

The city as subject, setting, and metaphor in Blake, Wordsworth, Baudelaire, Whitman, Dickens, Eliot, and others.—W. Sharpe.

*W 2:10-4:00.*

## **ENG BC 3998y. I. The Middle Ages.**

C. Baswell.

*M 2:10-4:00.*

### **II. The Renaissance.**

R. Patterson.

*Tu 2:10-4:00.*

### **III. The Eighteenth Century.**

A. Schneider.

*Th 4:10-6:00.*

### **IV. Early Nineteenth Century.**

C. Plotkin.

*W 4:10-6:00.*

### **V. Victorian to Modern.**

W. Sharpe.

*W 2:10-4:00.*

### **VI. Modern.**

J. Morse.

*Th 2:10-4:00.*

### **VII. American Literature.**

P. Shaw.

*Tu 4:10-6:00.*

## **ENG BC 3999x, ENG BC 3999y. Independent Study.**

A senior major who wishes to substitute Independent Study for one of the two required senior seminars should consult the departmental representative about qualifications and requirements.

*Registration is limited.*

*Written permission of the instructor and of the department chairman is required.*

*4 points.*



# Environmental Science

Office: 334 Milbank

Telephone: 280-5120, 3589

## Adjunct Assistant Professors

Richard Bopp (Chairman), Carole Swick

## Lecturer

Eric Katz

## Instructor

Steven Carson

## Assistant

Bruce Deck

Other officers of the University offering courses listed under Environmental Science:

## Professors

Wallace Broecker, James Hays, Robert A. Lewis, James Simpson, Kempton E. Webb

## Adjunct Professor

Leonard Zobler

## Assistant Professors

Sarah McLafferty, Neil Smith

## Lecturers

Stephen Baker, Anthony Del Genio, Miklos Pinther, Cynthia Rosenzweig, Helene Wilson

Environmental Science studies the energy and material levels and pathways of natural earth systems in order to assess the effect of exceedances of these levels caused by the inadvertent impacts of human technologic systems, such as the exposure to radioactive materials, release of toxic substances, carbon dioxide build-up, elimination of species, and despoliation of the landscape. It provides a rational scientific basis for the management of earth space and resources. Environmental Science combines the traditional sciences into a holistic view of natural systems, especially with regard to their connections to human designed systems. While dependent on the findings of the natural sciences to describe the separate pieces of environmental systems, it uncovers convergent relations that reflect coherences among the disciplines. The holism of environmental science is a thinking process that focuses on a unique dynamics of life on earth and presents this material as an organized body of knowledge.

The curriculum recognizes the need for broad and well-trained scientists to cope with the complexities of contemporary and anticipated disruptions of environmental systems. Majors must acquire a real-world understanding of hybrid built and natural systems, as well as the content and methodology of science. They will study the theoretical and applied aspects of environmental science and will be exposed to a range of current and future problems.

## REQUIREMENTS FOR THE MAJOR

- I. Environmental Science BC 1001, BC 1002
- II. One of the following options:
  1. 2 courses from each of 3 of the following departments: Biology, Chemistry, Geology, Physics,  
or
  2. 5 course concentration in one of the following: Biology, Chemistry, Geology, Physics
- III. Four courses to be selected from the following:

# Environmental Science

Environmental Science BC 3015	<i>Chemical Cycles in the Environment</i>
Environmental Science BC 3016	<i>Environmental Measurements</i>
Environmental Science BC 3019	<i>Energy and Mineral Resources</i>
Environmental Science BC 3022	<i>Environmental Case Studies</i>
Environmental Science BC 3035	<i>Environmental Hazards and Disasters</i>
Environmental Science BC 3037	<i>Environmental Monitoring</i>
Environmental Science BC 3038	<i>Environmental Planning and Site Development</i>
Geography W 4111	<i>Pedology and Soil Resources</i>
Geography W 4112	<i>Hydrology and Water Resources</i>

Graduating seniors are required to submit a report on an environmental research project by taking Environmental Science BC 3999, or as an extension of another course.

Majors in Environmental Science are encouraged to take courses in the social sciences in order to become familiar with the languages and approaches of these disciplines to environmental issues.

## REQUIREMENTS FOR THE MINOR

Five courses are required:

Environmental Science BC 1001, BC 1002, and electives that form a coherent program in conjunction with the student's major field.

## COURSES OF INSTRUCTION

### ENV BC 1001x, ENV BC 1002y.

#### **Environmental Science.**

Global and local dynamics of natural systems of the planet Earth, and their capacities to satisfy human demands for land, food, water, energy, minerals, open space, waste disposal. Impact of population growth, technology, and urban life-styles on planetary and regional equilibria. Autumn Term: physical processes of the atmosphere, hydrosphere, pedosphere, and lithosphere, and their vulnerabilities to human activities. Spring Term: ecosystem analysis of local and global processes in the biosphere, geographical ecology and biome classification; disturbances of the integrity of the environment by the technologies of modern agriculture and urban-industrial processes; remedial measures and planning a sustainable ecology for the future.—S. Carson.

*Enrollment limited to 100 students. Permission of the instructor required. Students must sign up for lab sections in 331 Milbank by the end of the previous term.*

*4½ points.*

*Lecture M W 1:10-2:25.*

*Laboratory M 2:40-5:30, Tu 2:40-5:30,*

*W 2:40-5:30, Th 2:40-5:30, F 2:40-5:30.*

### ENV BC 3015x. Chemical Cycles in the Environment.

A detailed study of the cycles of chemical species in the environment including carbon, nitrogen, phosphorus and sulfur compounds, major cations trace metals, and organic pollutants. Emphasis will be placed on man-induced perturbations of natural cycles.—R. Bopp.

*Prerequisite: Chemistry BC 1601 and Environmental Science BC 1001, BC 1002 or equivalent or permission of the instructor.*

*3 points. Tu Th 10:35-11:50.*

### ENV BC 3016y. Environmental Measurements.

Modern methods used in analysis of environmental samples for monitoring and research purposes. Standard and advanced techniques of air, water, sediment and soil analysis will be covered including spectrometric and chromatographic methods.—R. Bopp.

*Prerequisite: Chemistry BC 1601, or equivalent and permission of the instructor. Enrollment limited to 16 students. Alternate years. Offered in 1986-87.*

*3 points.*

*Lecture Tu Th 12:00-12:50.*

*Laboratory 2 hours per week, Tu or Th.*



# Environmental Science

## **ENV BC 3019x. Energy and Mineral Resources.**

A scientific description and evaluation of the current status and future of our energy and mineral resources including methods of treating wastes generated during resource production and use.—S. Carson.

*Prerequisite:* One year college science and permission of the instructor.

3 points. Tu Th 9:10-10:25.

## **ENV BC 3022y. Environmental Case Studies.**

Investigation of the scientific aspects of particular cases that illustrate major environmental problems. Legal and social implications will also be explored. Included will be such topics as ocean dumping of sewage sludge, eutrophication of Lake Erie, acidification of German forests and PCB contamination of the Hudson River.—S. Carson and R. Bopp.

*Prerequisite:* Environmental Science BC 1001, BC 1002, or equivalent, or permission of the instructor.

*Alternate years.* Not offered in 1986-87.

3 points.

## **ENV BC 3035y. Environmental Hazards and Disasters.**

Prediction and avoidance of catastrophic events that originate in natural systems and technologic systems; risk assessment, response strategies to minimize damage before, during and after events such as earthquakes, floods, nuclear breakdowns.—S. Carson.

*Alternate years.* Offered in 1986-87.

3 points. Tu Th 9:10-10:25.

## **ENV BC 3037x. Environmental Monitoring.**

Design and use of surveillance methods to safeguard the quality of life and public health; air, water, soils, home and occupational safety, food and consumer goods, disposal of toxic substances and sanitary, industrial, and household wastes. Determination of background levels, setting of standards and enforcement procedures, visits to public and private agencies.—Instructor to be announced.

*Not offered in 1986-87.*

3 points.

## **ENV BC 3038y. Environmental Planning and Site Development.**

Introduction to the site planning process based upon environmental, scientific, sociological, legal and economic considerations. Steps include data collection, site analysis, development of resource protection goals, development and evaluation of plan alter-

natives, and plan preparation and implementation. Two sites are used: A suburban site involving natural ecosystems and an urban site in Manhattan.—C. Swick.

*Limited enrollment; permission of the instructor required.*

3 points. Tu 4:10-6:00, plus studio design projects.

## **Environmental Science—Philosophy ESP BC 3025y. Ethics and Environment.**

A philosophical examination of the relationship between humanity and nature with a focus on the moral justifications for environmental policies. Topics include: the utility of the natural environment, responsibilities to future generations, and the moral consideration of nature. Readings from several disciplines: philosophy, ecology, economics, political theory, and law.—E. Katz.

3 points. Tu Th 2:40-3:55.

III/H

## **ENV BC 3999x, ENV BC 3999y. Problems and Projects in Environmental Science.**

Advanced laboratory and/or field studies for students who have adequate backgrounds to work independently with guidance from a member of the faculty.—Staff.

*Permission of chairman required.*

*Variable points. Hours to be arranged.*

## **Geography GEO 4111x. Pedology and Soil Resources.**

Introduction to biogeochemistry of soils and their genesis, morphology, and classification; ecology, management, and conservation of soils in different agricultural systems; evaluation, mapping, and planning of land sites for agricultural, open space, and urban uses.—L. Zobler.

*Prerequisite:* Environmental Science BC 1001, BC 1002, or equivalent, or permission of the instructor. Fee \$20.

*Two one-day field trips and reports required.*

*Alternate years.* Offered in 1986-87.

3 points.

Lecture Tu Th 3:10-4:00.

Laboratory Tu or Th 4:10-6:00.

## **Geography GEO W 4112x. Hydrology and Water Resources.**

Hydrologic cycle analysis of surface and ground water flows and their application to water management in urban and rural areas; resource planning for potable supplies, waste disposal, and other uses, case studies of water quality and flood control problems.—L. Zobler.

*Prerequisite:* Environmental Science BC 1001, BC 1002, or equivalent, or permission of the

# Environmental Science

*instructor. Two one-day field trips and reports. Alternate years. Not offered in 1986-87. 3 points.*

The following courses offered by the Geography Department of Columbia University are of special interest to students of Environmental Science. Students should consult the Columbia College Bulletin for course descriptions.

**GEO W 1019x. Spatial Organization of Society.**

N. Smith.  
3 points.

**GEO W 3020x. Economic Geography.**

S. McLafferty.  
3 points.

**GEO W 3071x-GEO W 3072y. Quantitative Techniques in Geography.**

N. Smith, S. McLafferty.  
3 points.

**GEO W 4018y. Cartography, I.**

M. Pinther.  
3 points.

**GEO W 4103y. Geography of Energy Crisis.**

N. Smith.  
3 points.

**GEO W 4050x. Population Geography.**

R. Lewis.  
3 points.

**GEO W 4071y. Remote Sensing of the Environment.**

H. Wilson.  
3 points.

**GEO W 4118x. The Climate and the Land: Global Change.**

L. Zabler, C. Rosenzweig.  
3 points.

**GEO W 4900x. World Resources and Industries.**

K. Webb, N. Smith, T. Shabad.  
3 points.

**GEO W 4910y. The Geography of Hunger and Food Supply.**

K. Webb.  
3 points.

The following courses offered by the Geological Sciences Department of Columbia are of special interest to students of Environmental Science. Students should consult the Columbia College Bulletin for course descriptions.

**GEY W 3001x. Time in the Earth Sciences.**

J. Hays and J. Simpson.  
3 points.

**GEY W 4008x. Introduction to Atmospheric Science.**

A. Del Genio.  
3 points.

**GEY W 4884y. Organic Geochemistry.**

R. Bopp.  
3 points.

**GEY W 4926y. Principles of Chemical Oceanography.**

W. Broecker and J. Simpson.  
3 points.



# Experimental Studies Program

*Office: 316 Milbank Hall*

*Telephone: 280-5481, 5417*

The Experimental Studies Program is supervised by the Experimental Studies Committee:

**Professor of Economics**

Deborah Milenkovitch

**Professor of English**

Barry Ulanov

**Lecturer in Experimental Studies**

Joan Dulchin (Director)

**Professor of Political Science**

Dennis Dalton

**Associate Professor of Psychology**

Peter Balsam

**Professor of Russian**

Richard Gustafson

## INTERNSHIPS AND INDEPENDENT PROJECTS

The Experimental Studies Program provides students with the opportunity to expand and enrich their education through independent projects, internships, and interdisciplinary studies.

The Experimental Studies Program takes students out of the classroom to undertake independent work of a kind not provided for by regular departmental offerings—and then brings them back to the classroom to analyze and reflect on these activities and experiences. The students in Experimental Studies BC 3001, BC 3002, fall into two broad categories: those doing internships in New York City, exploring careers and other interests, and those doing independent projects. Occasionally, students focus primarily on mastering special skills. In their projects, students can explore practical or interdisciplinary aspects of their major field of academic interest, or can extend their interests and abilities into new areas.

Recent projects include: medical illustration, writing case studies for a public health dentistry course, translating Spanish documents for the International League for Human Rights, doing research on the Cold War for a documentary film, exploring the connections between poetry and photography, working with developmentally delayed children, doing a study of the New York video community, working with a literary agent evaluating manuscripts, publishing a magazine on Venezuela for the United Nations newspaper, doing cancer research, and working on writing and singing projects. Students have recently held internships at the Vivian Beaumont Theatre, the Chinatown Health Clinic, Mount Sinai Hospital, WNYC Radio, New York Magazine, the Urban Homesteading Assistance Board, Family Planning Advocates, the International Indian Treaty Research Council, the Multiple Sclerosis Society, the Whitney Museum of Art, Channel 13, Kidder Peabody and Company, and the Manhattan District Attorney's Office.

In addition to the supervision in the setting of their internships and projects, students choose Barnard faculty members (or, where appropriate, faculty members from other branches of Columbia University) to guide and supervise their work. Meetings with faculty sponsors usually occur every two weeks, and in addition to reading, writing or research required by the project, students are usually asked to keep journals in which they reflect on their activities and experiences. Beyond this individual supervision which focuses on the content of the project, students meet weekly in seminars with the Director of the Program. In these seminars students discuss their

# Experimental Studies Program

projects with each other and analyze the social and cultural contexts in which their internships or projects are carried out. They compare experiences and use these as bases for analyzing how organizations, institutions and professions work. Ethical, political, and social issues are discussed, including issues relating to women and work. Evaluations for this pass/fail course are determined by the Director on the bases of the sponsors' evaluations and the student's contribution to the seminar. Except in unusual circumstances, this course is not open to freshmen.

Students may neither major nor minor in Experimental Studies.

## REGISTRATION PROCEDURES: INTERNSHIPS AND INDEPENDENT PROJECTS

Before the beginning of the semester each student who intends to register for Experimental Studies BC 3001, BC 3002 should follow these procedures:

- (1) Develop a proposal for a project or an internship. A semester internship can be obtained through the Office of Career Services, through the student's own contacts, or by consulting the list of recently completed internships available outside 316 Milbank Hall. A January or summer internship can be continued into the Spring or Fall, or can serve as the starting point for a project in BC 3001, BC 3002.
- (2) Consult the Director of the Experimental Studies Program, who advises on the feasibility and appropriateness of the project plan, suggests possible faculty sponsors, and discusses the project form.
- (3) Arrange for a faculty sponsor.
- (4) Return the project form, signed by the faculty sponsor, for approval.
- (5) Sign up for one section of the seminar.

## COURSES OF INSTRUCTION

### EXS BC 3001x, EXS BC 3002y. Experimental Studies Seminar.

For students doing independent or interdisciplinary projects or internships. In class discussion, students examine the social and cultural contexts of their projects, as well as the ethical, political, and social issues that arise from them.—J. Dulchin.  
*Limited to students with approved project forms.*

*Mandatory pass/fail (this will be noted on transcript). Enrollment limited to 20 students per section. This course may be taken for one or two semesters, in either order, and not necessarily consecutively.*  
*3 points.*  
*x: Section I M 11:00-12:30.*  
*Section II W 2:30-4:00.*  
*y: Section I M 11:00-12:30.*  
*Section II W 2:30-4:00.*



# Foreign Area Studies

Office: 320A Milbank Hall

Telephone: 280-5415

This program is supervised by the Committee on Foreign Area Studies:

**Professor of Anthropology**

Abraham Rosman

**Professor of Oriental Studies**

John Meskill<sup>1</sup>

**Professors of English**

David A. Robertson, Jr.,<sup>2</sup> Barry Ulanov

**Professor of French**

Serge Gavronsky

**Assistant Professor of History**

William McNeil

**Professor of Italian**

Maristella de Panizza Lorch

**Professor of Oriental Studies**

Barbara Stoler Miller

**Professor of Political Science**

Peter H. Juviler

**Professor of German**

Gertrud M. Sakrawa (Chairman)

<sup>1</sup>Absent on leave, 1986-87

<sup>2</sup>Emeritus and Special Lecturer

The purpose of Foreign Area Studies is to provide introduction to the study of some one foreign region or country of the world. The work is divided into three elements: language, a scholarly discipline, and a diversified approach to a region. The student who wishes to major may choose one of the regions listed below. The courses named under each region include only those most commonly elected. Other courses, or other regions of concentration, may be chosen upon approval of the project by an adviser. Concentrations in African Studies can be arranged in certain departments; for information see advisers in Anthropology, Geography, History, and Political Science. For fuller descriptions of the courses listed, see under the appropriate department.

## REQUIREMENTS FOR THE MAJOR

A major in Foreign Area Studies is open to a limited number of qualified students whose applications are approved by the committee in charge. Freshmen and sophomores anticipating such a major should consult their class advisers and the officer in charge by March 1 of the sophomore year.

The senior requirement varies according to the region studied. Majors should consult their advisers for details.

There is no minor in Foreign Area Studies.

**Asia (Adviser: Professor Miller). See Oriental Studies, page 197.**

**British Civilization (Adviser: Professor Ulanov)**

This program emphasizes historical and literary traditions of British Civilization and is comprehensive enough to include specialized interests in the fields of imperial and commonwealth studies. A student who wishes to major should plan, in consultation with her adviser, a program to include (a) four courses in history, (b) four additional courses, of which two must be in English literature, and (c) two courses in senior seminar in History or English.

# Foreign Area Studies

## European Studies (Adviser: Professor McNeil)

A program for students with a strong base in European languages and a focused interest in contemporary European affairs. Students interested in one Western European country should also consult the subsection on Western Europe.

Requirements:

European Studies BC 3352     *European Nation-State Building:  
France, Germany, and Italy.*

5 courses on one country or region, in more than one discipline. See the list of courses under Western Europe.

4 courses on general European subjects, to be selected after consultation with the program adviser.

2 courses of senior seminar under the direction of the program adviser.

Associated requirement (not counted towards the average in the major): competence (the equivalent of four Barnard semesters) in each of two European languages, usually French and German.

## COURSES OF INSTRUCTION

European Studies BC 3352x. *European Nation-State Building: France, Germany, and Italy.*

W. McNeil.

4 points.

IV/S

## Italian Studies (Advisers: Professors Colombo, Lorch, and Piccolomini)

The program aims to encourage the interest of students in contemporary Europe by focusing on Italy, both for its own sake and as a kind of test-case for the study of a rapidly changing European society. It offers a specialization to students who have an interest in one social science *and* in Italy at the same time.

Specific programs are planned with the adviser on the basis of a major's particular interests and needs. In all a major must take at least 12 courses with concentration in one particular discipline:

Italian V 1301-V 1302     *Comprehensive Elementary and  
Intermediate Italian*

or show sufficient proficiency;

Italian V 3333-V 3334     *Introduction to Italian Literature*  
or one year of other Italian courses in Italian or English;

3 History courses.

Italian Studies BC 3003     *Italian Cultural History, 1914-1944*  
Italian Studies BC 3004     *Italian Cultural History,*

History W 4215     *1944 to the present  
Italy since 1815*

Two courses in Italian culture to be chosen with the advisers.

Italian Studies BC 3191, BC 3192, *Senior Seminar*, in which the student will prepare her senior essay; and a minimum of three additional courses in one social science of the student's choice.

Double majors whose language requirement is met in Italian are welcome.



## COURSES OF INSTRUCTION

### **ITS BC 3003x. Italian Cultural History 1914-1944: From the Origins to the End of Fascism.**

Seminar. The economic and social conditions of Italy before World War I. Pre-Fascist Italian society; the role of the Savoy monarchy; the wide gap between cities and country; in mass movements: the socialists and the catholics. The role of poets and writers as political agitators: from Marinetti to D'Annunzio. Mussolini and the emergence of the middle class. The Fascist "revolution," its establishment, its triumph in the Ethiopian war, its decline with the second world war.—M. Piccolomini.

*3 points. W 4:10-6:00. Third hour to be arranged.*

### **ITS BC 3004x. Italian Cultural History 1944 to Present: The Establishment and Development of Democracy.**

Seminar. The rebirth of an industrial country; character of Italian industrialization. East-West polarization and the role of Italy. The Italian "miracle" of the sixties. Social trouble and terrorism in the seventies. The new mass movements of the eighties: women, youth,

minorities. Italy and the European cultural, economic and political community.—F. Colombo.

*3 points. Not offered in 1986-87.*

### **Italian-Political Science ISP G 4415y. Social and Political Institutions in Italy Today.**

Major Italian institutions; their operation in the Italian social and cultural structure.—F. Colombo.

*3 points. Th 4:10-6:00. Third hour to be arranged. V/S*

### **History HIS W 1150x, HIS W 1151y.**

**Introduction to the History of Europe: from the Renaissance to the Present.**

J. Mundy.

*3 points. M W 6:10-7:00. Third hour to be arranged.*

### **ITS BC 3191x, ITS BC 3192y. Senior Seminar.**

Guidance in research and writing of a critical essay by members of the staff of the program.—F. Colombo.

*Required for senior majors.*

*4 points. Hours to be arranged.*

For other courses in Italian, History, and the social sciences, consult the advisers.

## **Latin America (Adviser: Professor MacAdam)**

A major consists of the five starred courses and five additional courses, two of which should be in one department and above the introductory level, chosen with the help of the adviser.

Anthropology V 3010

Anthropology V 3017

Anthropology W 4111

Art History V 3080

Economics BC 3029

Economics G 4320

History W 4779-W 4780

Spanish BC 3011

\*Spanish BC 3015, BC 2016

\*Spanish BC 3031, BC 3032

\*Spanish BC 3034

*Native Peoples of Lowland South America*

*Caribbean Societies in the Global System*

*Latin American Communities*

*Pre-Columbian Art*

*The Economics of Underdeveloped Areas*

*Economic History of Latin America to 1950*

*History of Latin American Civilization*

*Significant Themes of Contemporary Latin American and Spanish Literature*

*Spanish-American Culture*

*Literature of Latin America*

*Independent Research in Latin America*

## **Russia (Adviser: Professor Juviler)**

The major consists of

4 years of Russian language and a reading knowledge of Russian adequate for research in the Senior Seminar; and

# Foreign Area Studies

8 courses distributed in the following subjects:

- 2 courses in Russian or Soviet literature (in translation or Russian);
- 2 courses in Russian history;
- 1 course on Russia or the Soviet Union (history, geography, sociology, economics, literature in translation or Russian, etc.);
- 1 course in Soviet politics; and
- 2 semesters of a senior research seminar with research to be conducted predominantly in Russian language sources.

One of the non-language courses is to be a colloquium. Specific programs are planned with the adviser on the basis of a major's particular interests and needs.

Art History G 4331	<i>Russian Art</i>
Economics W 4430	<i>Marxist Economic Theory</i>
Economics W 4524	<i>Economic Organization in Eastern Europe</i>
Geography W 4401	<i>Economic and Population Geography of the U.S.S.R.</i>
Geography W 4940	<i>Resources of the U.S.S.R.</i>
History W 3311	<i>History of Russia: from the beginning to 1918</i>
History W 3361	<i>History of the Soviet Union</i>
History W 3966	<i>Russian Social and Political Thought, 1689-1924</i>
History W 3967	<i>Seminar on Russian Revolutions, 1917-1924</i>
History W 4310	<i>History of Russia: 1649-1861</i>
History W 4311	<i>History of Russia: 1861-1917</i>
History W 4312	<i>History of Russia, Poland, and the Ukraine to the Time of Peter the Great</i>
Political Science BC 3220	<i>Colloquium on Communism and Revolutionary Change</i>
Political Science BC 3221	<i>Colloquium on Politics and Human Rights in the U.S.S.R.</i>
Political Science G 4487	<i>The Dynamics of Soviet Politics</i>
Political Science W 3522	<i>Communist Political Systems</i>
Russian V 1224	<i>Introduction to Russian Culture</i>
Russian V 3333, V 3334	<i>Introduction to Russian Literature</i>
Russian V 3461	<i>Pushkin</i>
Russian V 3462	<i>Gogol</i>
Russian V 3463	<i>Tolstoy</i>
Russian V 3464	<i>Dostoevsky</i>
Russian V 3465	<i>Russian Poetry in the 19th and 20th Centuries</i>
Russian V 3467	<i>Twentieth-Century Prose Writers</i>
Sociology W 3250	<i>Marxist Social Thought</i>

## Western Europe (Adviser: Professor McNeil)

For the program on England, see British Civilization above. For other Western European countries, such as the French, German, and Spanish-speaking countries, a major consists of ten courses, including

- 2 courses in basic European history or 2 other history courses approved by the adviser;
- 2 courses in the literature of one country, in the original language;
- 4 more courses on the country, chosen with the help of the adviser; and
- 2 courses of a senior seminar, usually in History.

<b>Europe</b>	Anthropology V 3007	<i>Peoples of Europe</i>
	Anthropology V 3038	<i>Ethnic Relations in Changing Societies</i>



# Foreign Area Studies

	Art History BC 3678, BC 3679 Economics BC 3031  History BC 1011  History BC 1012  History BC 3437 History BC 3791-BC 3792  History W 3204 History W 3216 History W 4275  Political Science BC 3007 Political Science BC 3013, BC 3014 Political Science G 4401 Political Science W 3530  Political Science W 3801	<i>Modern Art</i>  <i>The Development of Economic Thought 1770-1970</i> <i>Introduction to European History: Renaissance to French Revolution</i> <i>Introduction to European History: French Revolution to Present</i> <i>The European Enlightenment</i> <i>Senior Research Seminar in European History</i> <i>The Age of Revolutions</i> <i>European Intellectual History, 1300-1640</i> <i>European International Relations, 1914 to the Present</i> <i>Modern Political Movements</i>  <i>Political Theory</i> <i>Comparative Politics, Western Europe</i> <i>Political Participation and Democracy in Comparative Perspective</i> <i>Western Europe Today</i>  <i>French Architecture 1500-1800</i> <i>Masterpieces of Literature from the Middle Ages to the Twentieth Century</i> <i>France, 1515-1789</i>  <i>Introduction to German Literature and Civilization</i> <i>German Literature around the Turn of the Twentieth Century</i> <i>German History 1862 to the Present</i> <i>Germany and East Central Europe in Modern Times, 1914-1956</i> <i>History of the Hapsburg Monarchy: 1683-1919</i>  <i>The Italian Renaissance</i> <i>Dante's World</i> <i>Renaissance Humanism</i> <i>Machiavelli, Castiglione, Ariosto, and Tasso</i> <i>Italian Civilization and Culture</i> <i>Italian Renaissance: Courts and the Theatre</i>  <i>The Culture of Spain</i> <i>Literature of the Golden Age</i> <i>Nineteenth-Century Literature in Spain</i> <i>Contemporary Spanish Literature, Part I and II</i>
<b>France</b>	Art History BC 3669 French BC 3021, BC 3022  History BC 3025	
<b>Germany</b>	German BC 3011  German BC 3014  History W 4212 History W 4319  History W 4427-W 4428	
<b>Italy</b>	History W 3225 History-Italian V 3197 Italian V 3470 Italian V 3221 Italian V 3465 Italian-Music V 3034	
<b>Spain</b>	Spanish BC 3013 Spanish BC 3018 Spanish BC 3023 Spanish BC 3025, BC 3026	

# French

Office: 314 Milbank Hall

Telephone: 280-8312

## Professors

Serge Gavronsky<sup>1</sup> (Chairman), Renée Geen, Tatiana Green<sup>1</sup>

## Visiting Professors

Luigi De Nardis, Robert Pépin

## Adjunct Assistant Professors

Anne Boyman, Micheline Levowitz

## Assistant Professor

Elyane Dezon-Jones

## Instructors

Susan D. Cohen, Konrad A. Czynski, Isabelle Haddad, Claude Holland, Michal Hollander, MarieThérèse Killiam, David A. Powell, Mary Shaw

<sup>1</sup>Absent on leave, Spring Term.

Courses in the French Department have a twofold objective: to perfect fluency in the written and spoken language, and to develop an understanding and appreciation of the literature and culture of France and French-speaking countries.

New students who have already given evidence of advanced training in French (Advanced Placement Examination, CEEB examinations) may automatically be exempted from the language requirement. All other new students who intend to satisfy their requirement in French will, depending upon their preparation, be placed immediately in the appropriate language course or be asked to take a placement test offered at the start of each semester (see College Calendar for exact dates). Those receiving a sufficiently high grade fulfill the requirement. The others may do so by completing French BC 1204. For additional information about language courses, students should consult the department chairman.

Students who have satisfied the language requirement may take literature courses conducted entirely in French (BC 3020, BC 3021, BC 3022, BC 3023, BC 3024); courses in which the readings are in French, but with lectures, discussions, and papers in English (BC 3047, BC 3048); and advanced language course BC 1306.

In cooperation with Columbia College, the department offers a program at Reid Hall in Paris open to majors and non-majors. See Study Abroad, page 41.

The department holds many of its advanced classes in a special seminar-library, the French Room (306 Milbank).

## REQUIREMENTS FOR THE MAJOR

All majors are required to take the Junior French Test, a short-answer examination on French History, literary history, literary terminology, and translation. Majors will take the Major Examination, a written critical essay on a prepared question and an individual oral *explication de texte*.

Majors who plan to do graduate work are encouraged to acquire a reading knowledge of Latin and German.

In consultation with the adviser of her choice, the student majoring in French may select either of the following options:

### Language and Literature

Ten courses are required for the major:

French BC 3021  
and BC 3022

or

French BC 3023  
and BC 3024

*Masterpieces of Literature from the Middle  
Ages to the Twentieth Century*

*The Culture and Institutions of France*



2 of the following language courses:

French BC 3012	<i>History of the French Language</i>
French BC 3013	<i>Advanced Composition and Grammar</i>
French BC 3014	<i>Advanced Translation</i>
French BC 3015	<i>Advanced Translation into French</i>
French BC 3016	<i>Advanced Oral French</i>
French BC 3017	<i>The Translation of Dialogue</i>

5 literature courses chosen from BC 3031-BC 3046; and

One-term seminar numbered BC 3052 or a Senior Essay in Literature.

## Translation and Literature

The major requires 10 courses:

French BC 3021 and BC 3022, or BC 3023 and BC 3024;

French BC 3014 and two other advanced language courses chosen from courses BC 3013, BC 3015, or BC 3017;

4 one-term literature courses numbered BC 3031-BC 3046; and

one-term seminar numbered BC 3059 or a Senior Essay in Translation.

The student is expected to declare her option by the end of the junior year. Either program may include additional courses in French literature and language, or in other subjects which vary with the interest of the student.

## REQUIREMENTS FOR THE MINOR

Seven courses are required for a minor:

French BC 3021 and BC 3022, or BC 3023 and BC 3024;

2 advanced language courses (French BC 3012-BC 3017); and

3 advanced literature courses (French BC 3031-BC 3046).

A student who elects French as part of a combined, double, or interdisciplinary major will establish her individualized program with the departments concerned.

## COURSES OF INSTRUCTION

### LANGUAGE COURSES

All courses except BC 3014 and BC 3017 are conducted in French.

#### **FRE BC 1001x-FRE BC 1002y.**

##### **Elementary Full-Year Course.**

Grammar, reading, composition.—Staff.  
Course Chairman: C. Holland.

*Enrollment limited to 20 students per section. Work in the language laboratory is required. 4 points. No credit is given for BC 1001 unless BC 1002 has been satisfactorily completed.*

*Section I M Tu W Th F 9:00. C. Holland.*

*Section II M Tu W Th F 9:00. M. Shaw.*

*Section III M Tu W Th F 10:00. D. Powell.*

*Section IV M Tu W Th F 11:00. K. Czynski.*

#### **FRE BC 1102x. Review of Elementary French.**

Oral and written review of basic grammar and syntax. Reading in modern literature, oral practice, free composition, translation.—Staff.

Course Chairman: S. Cohen.

*Primarily for students who need further instruction to qualify for the intermediate course. Enrollment limited to 20 students per section. Work in the language laboratory is required. 3 points.*

*Section I M W F 9:00. S. Cohen.*

*Section II M W F 10:00. M.T. Killiam.*

*Section III M W F 11:00. M. Hollander.*

*Section IV Tu Th 1:10-2:25. M. Shaw.*

*Section V Tu Th 1:10-2:25. K. Czynski.*

#### **FRE BC 1203x. Intermediate Course.**

Grammar and syntax. Reading in modern literature, oral practice, free composition, translation.—Staff.

Course Chairman: A. Boyman.

*Prerequisite: BC 1001-BC 1002, BC 1102, C1101-C1102, or an appropriate score on the placement test.*

*Enrollment limited to 20 students per section.*

# French

*Work in the language laboratory is required.*

*Laboratory fee \$5.*

*3 points.*

*Section I M W F 9:00. A. Boyman.*

*Section II M W F 10:00. K. Czynski.*

*Section III M W F 11:00. D. Powell.*

*Section IV M W 1:10-2:25. M.T. Killiam.*

*Section V Tu Th 10:35-11:50. I. Haddad.*

*Section VI Tu Th 1:10-2:25. I. Haddad.*

## **FRE BC 1203y. Intermediate Course.**

Equivalent of BC 1203x but given in the Spring Term.—Staff. Course Chairman: E. Dezon-Jones.

*Prerequisite: BC 1001-BC 1002, BC 1102x, C 1101-C1102, or an appropriate score on the placement test. Enrollment limited to 20 students per section. Work in the language laboratory is required. Laboratory fee \$5.*

*3 points.*

*Section I M W F 9:00. E. Dezon-Jones.*

*Section II M W F 10:00. M. Hollander.*

*Section III Tu Th 10:35-11:50. I. Haddad.*

*Section IV Tu Th 1:10-2:25. D. Powell.*

## **FRE BC 1204x. French through Literary Analysis. Intermediate Course II.**

Study of literary texts from Pascal to Rimbaud as a basis for improving the comprehension of written and spoken French.—Staff. Course Chairman: R. Geen.

*Prerequisite: BC 1203 or an appropriate score on the placement test. Enrollment limited to 20 students per section. Work in the language laboratory is required.*

*3 points.*

*Section I M W F 9:00. E. Dezon-Jones.*

*Section II M W F 10:00. C. Holland.*

*Section III M W F 11:00. R. Geen.*

*Section IV M W F 1:10-2:00. M. Hollander.*

*Section V Tu Th 10:35-11:50. M. Levowitz.*

## **FRE BC 1204y. French through Literary Analysis. Intermediate Course II.**

Equivalent of BC 1204x but given in the Spring Term.—Staff. Course Chairman: A. Boyman.

*Prerequisite: BC 1203 or an appropriate score on the placement test. Enrollment limited to 20 students per section. Work in the language laboratory is required. 3 points.*

*Section I M W F 9:00. A. Boyman.*

*Section II M W F 10:00. M.T. Killiam.*

*Section III M W F 11:00. M.T. Killiam.*

*Section IV M W 1:10-2:25. S. Cohen.*

*Section V Tu Th 1:10-2:25. I. Haddad.*

*Section VI Tu Th 1:10-2:25. M. Hollander.*

## **FRE BC 1205y. Intermediate Oral French.**

Intensive oral work. Pronunciation exercises, vocabulary enrichment through discussions on prepared topics, poetry recitation, and theatrical presentations.—C. Holland.

*Prerequisite: BC 1102 or BC 1203, or a satisfactory score on the placement test. This course does not satisfy the language requirement. Work in the language laboratory is required. Enrollment limited to 15 students.*

*3 points. Tu Th 10:35-11:50.*

## **FRE BC 1306x. Composition and Conversation.**

Weekly compositions designed to improve writing skills, and to correct grammar and syntax. Pronunciation, vocabulary development, conversations, debates based on controversial themes, and selected literary readings.—M. Levowitz.

*Prerequisite: BC 1204 or a satisfactory score on the placement test. Enrollment limited to 15 students. Work in the language laboratory is required. Laboratory fee \$5.*

*3 points. Tu Th 1:10-2:25.*

## **FRE BC 1306y. Composition and Conversation.**

Equivalent of BC 1306x but given in the Spring Term.—M.T. Killiam.

*Prerequisite: BC 1204 or a satisfactory score on the placement test. Enrollment limited to 15 students. Work in the language laboratory is required.*

*Laboratory fee \$5.*

*3 points M W 1:10-2:25.*

## **FRE BC 3012y. History of the French Language.**

Distinguishing characteristics of the French language in their relation to literary prose from the Middle Ages to the twentieth century. Analysis and translation of representative texts.—Instructor to be announced.

*Upperclassmen preferred.*

*Offered in 1987-88.*

*3 points.*

## **FRE 3013x. Advanced Composition and Grammar Review.**

Systematic study of morphology, syntax, and idiomatic constructions; exercises, compositions, occasional translations into French.—R. Geen.

*Nonmajors may take the course with the permission of the instructor.*

*3 points. M W F 10:00.*



**FRE BC 3014y. Advanced Translation.**

Translation of various styles of prose and poetry from French to English.—A. Boyman. *Nonmajors may take the course with the permission of the instructor.*  
3 points. M W F 11:00.

**FRE BC 3015x. Advanced Translation into French.**

Translation from English to French of various styles of prose and poetry.—R. Geen. *Nonmajors may take the course with the permission of the instructor.*  
Offered in 1987-88.  
3 points.

**FRE BC 3016y. Advanced Oral French.**

Spoken French stressing fluency, and acquisition of new vocabulary. Practice in pronunciation and intonation through conversations, debates based on newspaper articles, dramatic readings and oral explication de texte.—M. Levowitz. *Nonmajors may take the course with the permission of the instructor. Enrollment limited to 15 students. Work in the language laboratory is required. Laboratory fee \$5.*  
3 points. Tu Th 10:35-11:50.

**FRE BC 3017x. Advanced Translation: Theatrical Dialogue.**

Translation of passages from French plays and movie scripts. Group and individual projects.—A. Boyman. *Nonmajors may take the course with the permission of the instructor.*  
Offered in 1987-88.  
3 points.

## LITERATURE COURSES

For nonmajors the literature courses listed in this section will count toward the general requirement. Courses BC 3047 and BC 3048 are conducted in English.

**FRE BC 3020x. Special Themes in Modern French Literature: The Writings of French Painters.**

Selections from Delacroix to Dubuffet. A study of the artist's views on art, aesthetics, and his contemporary world.—R. Geen. *Prerequisite: Satisfaction of the language requirement in French. Enrollment limited to 20 students.*  
Offered in 1987-88.  
3 points.

II/H

**FRE BC 3020y. Special Themes in Modern French Literature: Childhood Revisited.**

A psychoanalytical study of childhood and adolescence in the works of Flaubert, Gide, Vallès, Cocteau and other writers.—M. Levowitz. *Prerequisite: Satisfaction of the language requirement in French.*  
3 points. Tu Th 1:10-2:25.

**FRE BC 3021x, FRE BC 3022y. Masterpieces of Literature from the Middle Ages to the Twentieth Century.**

Scope and variety of French literature through analyses of significant works and currents from the Middle Ages to the twentieth century. Lectures, discussions and close textual analyses. Autumn Term: Medieval, Renaissance and Classical Literature. Spring Term: The Age of Enlightenment, Romanticism, Realism and Symbolism. French BC 3021 may be taken for credit without completion of French BC 3022.

*Prerequisite: Satisfaction of the language requirement in French.*  
3 points.

x: Tu Th 10:35-11:50. C. Holland.

y: M W F 10:00. S. Cohen.

II/H

**FRE BC 3021y. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part I.**

Equivalent of Course BC 3021x but given in the Spring Term.—E. Dezon-Jones.

*Prerequisite: Satisfaction of the language requirement in French.*  
3 points. M W F 10:00.

II/H

**FRE BC 3022x. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part II.**

Equivalent of BC 3022y but given in the Autumn Term.—S. Cohen.

*Prerequisite: Satisfaction of the language requirement in French.*  
3 points. M W F 11:00.

II/H

**FRE BC 3023x, FRE BC 3024y. The Culture and Institutions of France.**

Major cultural and institutional foundations of France from the Middle Ages to the present; the play of these forces on the contemporary period. Readings include historical, religious, and literary sources.—S. Gavronsky. *Prerequisite: Satisfaction of the language requirement in French.*

Alternate years. Offered in 1987-88.

3 points.

II/H

# French

## **FRE BC 3031x. The Middle Ages.**

Analysis of love in some of the major literary and theoretical texts of the period together with twentieth-century interpretations found in surrealism, contemporary criticism, and films. Readings will include the Tristan poems, works of the troubadours, troubairitz, Chrétien de Troyes, the Mélusine legend, as well as prose and poetry by Breton, Aragon, and Mansour; criticism by Kristeva and Zumthor and feature films by Carné, Rohmer, and Malle.—S. Gavronsky.

*Prerequisite:* BC 3021, BC 3022, BC 3023, BC 3024, or permission of the instructor.

*Offered in 1987-88.*

3 points.

II/H

## **FRE BC 3032x. Renaissance and Classical Prose.**

Fictional and non-fictional prose of the sixteenth and seventeenth centuries: Rabelais, Montaigne, Descartes, Pascal, La Rochefoucauld, Madame de Sévigné, Madame de La Fayette, Bossuet, La Bruyère.—T. Greene.

*Prerequisite:* BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor. Enrollment limited to 20 students.

3 points. Tu Th 1:10-2:25.

II/H

## **FRE BC 3033x. Renaissance, Baroque, and Classical Poetry.**

Form, content, and aesthetics of poets from Marot to La Fontaine, including Marguerite de Navarre, Louise Labé, Maurice Scève, du Bellay, Ronsard, D'Aubigné, Sponde, other Baroque poets, Boileau, and Racine.—Instructor to be announced.

*Prerequisite:* BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.

*Enrollment limited to 20 students.*

*Offered in 1987-88.*

3 points.

II/H

## **FRE BC 3034x. The French Theatre of the Seventeenth Century.**

Corneille, Racine, and Molière.—R. Geen.

*Prerequisite:* BC 3021, BC 3022, BC 3023, BC 3024 or permission of the instructor.

*Offered in 1987-88.*

3 points.

## **FRE BC 3035x. Eighteenth-Century French Fiction.**

Courses and discourses of the heroine in selected eighteenth-century novels. The rise of the harlot, the tribulations of the orphan, the fall of the noblewoman and the revenge of

the betrayed in Prévost: *Manon Lescaut*, Marivaux: *La Vie de Marianne*, Diderot: *La Religieuse* and Laclos: *Les Liaisons dangereuses*. Transpositions of the eighteenth-century heroine in operas and films.—R. Geen.

*Prerequisite:* BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.

3 points. M W 1:10-2:25.

II/H

## **FRE BC 3037y. Nineteenth-Century French Poetry.**

Poetry and poetics from Romanticism through Symbolism. Selections from the works of Hugo, Nerval, Baudelaire, Rimbaud, and Mallarmé.—A. Boyman.

*Prerequisite:* BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.

*Offered in 1986-87.*

3 points. M W F 10:00.

II/H

## **FRE BC 3038y. The Nineteenth-Century French Novel.**

Evolution of the novel, aesthetics of Romanticism, Realism, and Naturalism. Authors will include Balzac, Stendhal, Flaubert, and Zola.—E. Dezon-Jones.

*Prerequisite:* BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent or the permission of the instructor.

*Offered in 1987-88.*

3 points.

## **FRE BC 3039y. Twentieth-Century French Theatre.**

Tradition and innovation in major French dramatists from Jarry and Apollinaire to Ionesco and Arrabal.—R. Geen.

*Prerequisite:* BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.

3 points. M W F 11:00.

II/H

## **FRE BC 3040y. Twentieth-Century Fiction.**

Theory and forms of the novel. A study of the evolution of the "genre" through a careful reading of Colette: *La Vagabonde*, Proust: *Du côté de chez Swann*, Gide: *L'Immoraliste*, Sartre: *La Nausée*, Sarraute: *Les fruits d'or*, Mauriac: *Thérèse Desqueyroux*. —E. Dezon-Jones.

*Prerequisite:* BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.

3 points. M W F 1:10.

II/H

## **FRE BC 3041x. Twentieth-Century French Thought.**

Definitions of language, revolution, and science in major texts from Surrealism to



Structuralism: Breton, Aragon, Sartre, Camus, Barthes and Lévi-Strauss.—S. Gavronsky.  
*Prerequisite:* BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.  
 3 points. Tu Th 10:35-11:50. II/H

**FRE BC 3042y. Twentieth-Century French Poetry.**

Reality and literary language in contemporary poetry and poetics. Readings include Apollinaire, Breton, Eluard, Michaux, Ponge and Perse.—S. Gavronsky.  
*Prerequisite:* BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.  
 Offered in 1987-88.  
 3 points. II/H

**FRE BC 3043x. French Women Writers.**

Literary and cultural study of prose writers, poets, and influential groups, with emphasis on Louise Labé, the *Précieuses*, Madame de Sévigné, Madame de La Fayette, Madame de Staël, George Sand, Colette, Beauvoir, Sarraute, Duras, Rochefort, Vilmorin, Wittig, Cixous.—Instructor to be announced.  
*Prerequisite:* BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.  
 Enrollment limited to 25 students.  
 Offered in 1987-88.  
 3 points. II/H

**FRE BC 3044y. Materials and Techniques of French Poetry.**

Theme, emotion, ideas and programs, and techniques such as meter, rhyme, rhythm, sound, set forms, images, metaphors and symbols, vocabulary, and the prose poem, from early French poetry to the Surrealists and recent poetry.—Instructor to be announced.  
*Prerequisite:* BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.  
 Enrollment limited to 15 students.  
 Offered in 1987-88.  
 3 points. II/H

**FRE BC 3047x. French Women Writers.**

A close reading of the texts by known and lesser-known French women writers with an emphasis on the “querelle des femmes” yesterday and now. Writers include Hélisenne de Crenne, Marie de Gournay, Anne-Marie du Boccage, Madame de Lambert, Delphine Gay as well as twentieth-century material.—E. Dezon-Jones.  
*Prerequisite:* Satisfaction of the language requirement in French.  
 3 points. M W 11:00. II/H

**FRE BC 3048y. Strategies of Mystery.**

Instructor to be announced.  
*Prerequisite:* Satisfaction of the language requirement in French.  
 Offered in 1987-88.  
 3 points. II/H

## SEMINARS

The number of students in each seminar is limited and written permission is required in advance of registration period.

**FRE BC 3052x. Seminar in Language and Literature.**

George Sand.—T. Greene.  
 4 points. W 4:10-6:00.

**FRE BC 3053x. Seminar in Translation and Literature.**

Robert Pépin.  
 4 points. W 4:10-6:00.

## SENIOR ESSAYS

A Senior Essay may be taken in lieu of the senior seminar only by seniors with an A-average in the department. Written permission of sponsor and chair is required in advance of registration period. All students will take the senior majors' examination; the defense of the essay constitutes the oral part of the majors' examination. Normally a one-semester course.

**FRE BC 3057, FRE BC 3058.**

**Senior Essay: Literature.**

Research into a topic of French literature and presentation of a long essay written in French.

**FRE BC 3059, FRE BC 3060. Senior Essay: Translation.**

Presentation and translation into English of a French text of significant length and literary value.

## STUDY IN PARIS

Reid Hall Programs  
 419 Lewisohn Hall, 280-2559

Reid Hall, at 4, rue de Chevreuse, in Montparnasse, is the Paris campus for Barnard College and Columbia University programs. The programs are open to students with majors in all fields. To assure validation of credits, students should work closely with their major

# French

advisers. Students should consult the current Reid Hall Bulletin about course offerings, which are subject to change.

Students may study at Reid Hall for one term (autumn, spring, or summer) or for an entire academic year. Students in the autumn programs may stay on for the spring. Participation in the Reid Hall Programs (except during the summer) requires a full-time commitment to four courses totaling at least 12 points. Students may enroll in a fifth course with the permission of the Director of Studies. All students should discuss their proposed program with their home college adviser and Dean of Studies prior to departure.

## AUTUMN PROGRAMS

Application Deadline: April 1

1. *The Intermediate Program*. Open to students with one year of college-level French or the equivalent.
2. *The Combined Program*. Open to students with two years of college-level French or the equivalent.
3. *The Advanced Program*. Open to students with three years of college-level French or the equivalent. The third-year courses may be in literature, culture, grammar, composition, or conversation.
4. *The Art History Program*. Open to students with one or two years of college-level French or the equivalent, and one introductory-level art history course.

## SPRING PROGRAMS

Application Deadline: October 1

1. *The Combined Program*. Open to students with two years of college-level French or the equivalent.
2. *The Advanced Program*. Open to students with three years of college-level French or the equivalent. The third-year courses may be in literature, culture, grammar, composition, or conversation.
3. *The Women's Studies Program*. Open to students with three years of college-level French or the equivalent, and two courses in women's studies or relevant disciplines.

## ACADEMIC-YEAR PROGRAMS

Application Deadline: April 1

1. Students in the above-mentioned autumn programs may stay on for the spring. A variety of program options are available and are included in the descriptions of the autumn programs.
2. *The Academic-Year Program*. Open to students who have completed three years of college French with distinction. Students study at Reid Hall and in the French university system and may write a thesis.

## SUMMER PROGRAMS

The Columbia University Summer Session regularly offers courses at Reid Hall. A six-week summer term, in operation during June and July, is open to Columbia University and Barnard College students, qualified students from other institutions, and to persons without current academic affiliation. All courses are offered for academic credit and are staffed by members of the Columbia faculty. Although the program changes from year to year, a typical Paris offering includes courses in intermediate and advanced French and in art history. Courses in film, literature, history, and philosophy may also be available. The Reid Hall Program is announced in the Summer Session Bulletin, which is available in February of each year. For a copy, write or call the Summer Session Office of Admissions, 303 Lewisohn Hall, Columbia University, New York, N.Y. 10027; (212) 280-3331.

### Autumn Programs

All courses are conducted in French unless otherwise indicated.

## THE INTERMEDIATE PROGRAM

The Intermediate Program is open to students in good standing who have completed one year of college French or the equivalent with at least a B average. Intermediate Program students who wish to continue their studies at Reid Hall during the spring enter the Advanced Program or the Women's Studies Program, but do not take courses in the French university system.

Courses (All required.)

- |                 |   |
|-----------------|---|
| French H 1201p. | <i>Intermediate language course, first half.</i>  |
| French H 1202q. | <i>Intermediate language course, second half.</i> |



## Spring Programs

All courses are conducted in French unless otherwise indicated.

## THE COMBINED PROGRAM

The Combined Program is open to students in good standing who have completed two years of college French or the equivalent with at least a B average.

Courses (Select four or five.)

French H 3439y.	<i>Practice in the French language: grammar and composition (required).</i>
French H 3440y.	<i>Practice in the French language: aural/oral skills.</i>
French H 3333y.	<i>Introduction to literary study: medieval to neo-classical literature.</i>
French H 3334y.	<i>Introduction to literary study: from the 18th century to the present.</i>
French H 3002y.	<i>Phonetics, II.</i>
Art History H 3430y.	<i>Renaissance and 17th-century art and architecture.</i>
History H 3460y.	<i>Paris as monument (section 1).</i>

## THE ADVANCED PROGRAM

The Advanced Program is open to students in good standing who have completed three years of college French or the equivalent with at least a B average. The third-year courses may be in literature, culture, grammar, composition, or conversation.

Courses (Select four or five.)

French H 3442y.	<i>Advanced practice in the French language: grammar and composition (required).</i>
French H 3441y.	<i>Advanced practice in the French language: aural/oral skills.</i>
French H 3003y.	<i>Phonetics, III.</i>
French H 3602y.	<i>Contemporary French literature.</i>
French H 3625y.	<i>Literary analyses of French culture.</i>
Art History H 3320y.	<i>Medieval art and architecture.</i>
Art History H 3990y.	<i>Claude Monet (seminar).</i>

Art Humanities

H 3710y.

History H 3260y.

Philosophy H 3550y.

French H 3992y.

*Fine arts in Paris (in English).*

*The French intellectual and France in crisis.*

*Aspects of contemporary French thought.*

*Supervised study in the French university system (one or two courses).\**

\*Students who take courses in the French university system during the spring term must be prepared to remain in Paris until June 15. Those who, for reasons such as summer employment, must return to the United States in May should be aware of this potential conflict.

## THE WOMEN'S STUDIES PROGRAM

The Women's Studies Program, now in its fourth year, is offered in conjunction with the Women's Studies Program at Barnard College. It is the first program of its kind in France, where women's studies has become an important field of intellectual investigation in the last ten years. American students with a commitment to women's studies can find a ready context for exchange within the French university system. The attention paid to the roles played by the cultural and historical notions of gender should enable students to reflect more acutely upon their own experiences and values. Many of the cultural, social, and political issues of concern to women in France today will give students a special insight into the workings of French society.

The Women's Studies Program is open to students in good standing who have completed three years of college French or the equivalent, and two courses in women's studies or in other relevant disciplines. The third-year courses may be in literature, culture, grammar, composition, or conversation. The Women's Studies courses are open to students in the Advanced Program.

Courses

French H 3442y.	<i>Advanced practice in the French language: grammar and composition (required).</i>
French-Women's Studies H 3450y.	<i>Contemporary French thought and feminist theory.</i>

# French

- French H 3334q. *Introduction to literary study: from the 18th century to the present.*
- French H 2503q. *Introduction to French civilization and culture.*
- French H 3001q. *Phonetics, I.*

## THE COMBINED PROGRAM

The Combined Program is open to students in good standing who have completed two years of college French or the equivalent with at least a B average. Combined Program students who wish to continue their studies at Reid Hall during the spring enter the Advanced Program or the Women's Studies Program and may take one course in the French university system.

Courses (Select four or five.)

- French H 3439x. *Practice in the French language: grammar and composition (required).*
- French H 3440x. *Practice in the French language: aural/oral skills.*
- French H 3334x. *Introduction to literary study: from the 18th century to the present.*
- French H 3002x. *Phonetics, II.*
- Art History H 3430x. *Renaissance and 17th-century art and architecture.*
- History H 3460x. *Paris as monument (section 1).*

## THE ADVANCED PROGRAM

The Advanced Program is open to students in good standing who have completed three years of college French or the equivalent with at least a B average. The third-year courses may be in literature, culture, grammar, composition, or conversation. Advanced Program students who wish to continue their studies at Reid Hall during the spring enter the Women's Studies Program or the spring term Academic-Year Program with or without the thesis.

Courses (Select four or five.)

- French H 3442x. *Advanced practice in the French language: grammar and composition (required).*
- French H 3003x. *Phonetics, III.*
- French H 3602x. *Contemporary French literature.*
- French H 3604x. *Seminar on contemporary French art.*

- French H 3625x. *Literary analyses of French culture.*
- Art History H 3320x. *Medieval art and architecture.*
- History H 3250x. *French foreign policy since World War II.*
- Philosophy H 3550x. *Aspects of contemporary French thought.*
- French H 3991x. *Supervised study in the French university system (one or two courses).\**

\*Students who take courses in the French university system during the autumn term must be prepared to remain in Paris until January 20. Those who must return to the United States in time to begin the spring term at their home school should be aware of this potential conflict.

## THE ART HISTORY PROGRAM

Students in the Art History Program immerse themselves in the art and culture of nineteenth-century France through two advanced courses combined with guided visits and personal exploration of the city, its museums and galleries, its libraries and monuments. A survey of the art and architecture of Paris from its origins to the twentieth century and the study of the French language complete the program.

The Art History Program is open to students in good standing who have completed two years of college French or the equivalent and one introductory art history course with at least a B average. Students with one year of college French may apply, although preference will be given to those with two years of French. The Program is limited to twenty undergraduates who need not be art history majors. Art History Program students who wish to continue their studies at Reid Hall during the spring enter the Advanced Program.

Courses (All required.)

- Art History H 3680x. *French painting of the 19th century (in English).*
- Art History H 3995x. *Decorating Paris: monumental public art of the 19th century (seminar) (in English).*
- French H 3439x. *Practice in the French language: grammar and composition.*
- History H 3460x. *Paris as monument (section 2) (in English).*



History-Women's Studies H 3550y.	<i>Women and society in France.</i>
French H 3992y.	<i>Supervised study in the French university system.</i>
	<i>(See note * above.)</i>

The Academic-Year Program

All courses are conducted in French unless otherwise indicated.

The Academic-Year Program is designed for students who have superior (A) grades in French and who wish to take maximum advantage of the opportunity to study in the French university system. At the time they apply to the Program, students must commit themselves to a program of study which will last from September through mid-June.

Students follow a program of courses in the French university system and at Reid Hall. Students register for two or three courses in the French university system in major and elective fields. Course work is validated by regular examinations, oral reports, and papers. In addition, students select two or three courses from the Advanced Program at Reid Hall. The program of courses is individually arranged for each student by the Director of Studies.

Upon completion of the Program, an academic report is filed with the Dean of Students of the home college. The report includes a letter of evaluation and grade from each French faculty member with whom the student took a course; a personal evaluation of the student's performance by the Director of Studies; and a written evaluation of the thesis by the tutor (for those who choose the honors option).

*Honors option.* For those students who wish, a thesis project may be substituted for courses at Reid Hall. The thesis project consists of guided research in the student's major field and weekly hour-long meetings with a tutor, culminating in a thesis (from 80 to 120 pages

in length). Eminent members of the French intellectual community serve as tutors. This thesis is an original, carefully researched work that the student discusses regularly with the tutor and with the Director of Studies. It is submitted to the home college upon return. Each student receives an annual allowance of 1200 francs in order to help defray the costs associated with research and the thesis.

Prerequisites

The Academic-Year Program is open to students who have completed three years of college French with distinction. Students applying to the Academic-Year Program must demonstrate through course work and written recommendations their fluency in spoken and written French which is essential for taking courses in the French university system. A student who chooses the honors option must include with the application a two-page proposal for the thesis that must be approved by the student's major department and by the Reid Hall Academic Coordinator.

Autumn Courses

French H 3991x.	<i>Supervised study in the French university system (two or three courses).</i> and <i>Two or three courses selected from the Advanced Program at Reid Hall</i> or <i>Supervised research in France (thesis).</i>
French H 3997x.	

Spring Courses

French H 3992y.	<i>Supervised study in the French university system (two or three courses).</i> and <i>Two or three courses selected from the Advanced Program at Reid Hall</i> or <i>Supervised research in France (thesis).</i>
French H 3998y.	

# Freshman Seminar Program

*Program Office: 420 Lehman Hall*

*Telephone: 280-5046, 2159*

This program is supervised by the Freshman Seminar Committee:

**Professor of Russian**

Marina Astman

**Professor of Political Science**

Dennis Dalton

**Professor of Philosophy**

Sue Larson

**Professor of History**

Robert A. McCaughey (Director)

**Associate Professor of Classics**

Helene P. Foley

Instruction in the Freshman Seminar Program is provided by the following regular members of the Barnard College Faculty:

**Professors**

Marina Astman (Russian), Lila Braine (Psychology), Patricia Carpenter (Music), Dennis Dalton (Political Science), Serge Gavronsky (French), Peter Juviler (Political Science), Ruth Kivette (English), Alfred MacAdam (Spanish), Robert A. McCaughey (History), Mary Mothersill (Philosophy), Richard Pious (Political Science), Alan Segal (Religion), Mirella Servodidio (Spanish)

**Associate Professors**

Helene Foley (Classics), Lydia Lenaghan (Classics)

**Assistant Professors**

Christopher Baswell (English), André Burgstaller (Economics), Mark Carnes (History), Leslie Calman (Political Science), William McNeil (History), Jeffrey Merrick (History), Cynthia Saltzman (Anthropology), Daniel Selden (Classics), Brian Smith (Religion), Barbara Tischler (History), Robert Tragesser (Philosophy)

**Lecturers and Associates**

Helene de Aguilar (Spanish), Regina Ayre (German), Susan Sacks (Education), Marvin Shulman (German)

**Instructors**

Konrad Czynski (French), David Powell (French), Timea Szell (English)

**Purpose and Structure**

Every Barnard freshman is required to take a Freshman Seminar during her first or second semester at Barnard. The purposes of the Freshman Seminars are threefold:

1. To develop further the essential and prerequisite skills a student brings to Barnard in the critical reading and analysis of important texts, in effective speaking, and in writing well—this last especially.
2. To develop these skills within an intellectually challenging context where students and teacher alike, through an examination of important and relevant texts, engage in an extended consideration of a theme central to human concerns and which goes beyond departmental boundaries.
3. To develop these skills and encounter this intellectual challenge in a small-class setting with instruction by a regular member of the Barnard faculty who has chosen to participate in the program. As such, Freshman Seminars should provide entering Barnard students with an early and positive additional measure of institutional identity.



# Freshman Seminar Program

Accordingly, all Freshman Seminars share a common structure:

- Each will meet twice a week in regularly scheduled class periods
- Each will have its enrollment limited to twenty or fewer students.
- Reading assignments will consist of a *maximum* of six book-length assignments or their equivalent (about 2000 pages).
- Writing assignments will consist of a *minimum* of an assignment every other week. These assignments will vary in character (e.g., an assigned topic; a selected topic; reworking a previous assignment; editing the work of others) and length.
- The regular grading practices of the College will be followed. Upon completion of the course, students will have an opportunity to evaluate their Freshman Seminar and to offer suggestions as to how it might be improved in subsequent offerings.

## COURSES OF INSTRUCTION

The Freshman Seminar Program consists of twenty-eight seminars, organized into five clusters:

- I. Literary Reflections on the Human Condition
- II. The Individual and the Social Order
- III. Women in Literature and Culture
- IV. Aspects of the Modern Condition
- V. Cross-Cultural Encounters

These clusters identify thematic concerns or textual emphases common to more than one seminar, while reflecting varying levels of faculty collaboration that went into the development of the individual seminars. They are also intended to facilitate the process by which a student selects the seminar of her first or second choice. (Procedures for selecting Freshman Seminars are described in Freshmen Registration materials.)

### I. LITERARY REFLECTIONS ON THE HUMAN CONDITION

Each of these seminars focuses on an enduring theme or genre through a close reading of texts drawn from the sweep of classical and western literature.

#### FSM BC 1101y. The Comic Mode.

This seminar explores the comic tradition in plays, fiction, and theory, focusing on its forms, techniques, and points of view, and especially on the use of comedy as criticism of institutions, conventions, and moral values. Readings include:

Aristophanes, *The Clouds*  
William Shakespeare, *A Midsummer Night's Dream*  
Miguel de Cervantes, *Don Quixote* (Book I)  
Voltaire, *Candide*  
Nikolai Gogol, *Dead Souls*  
Franz Kafka, "A Report to an Academy"  
Bertold Brecht, *The Threepenny Opera*

Regina Ayre, German Department  
Spring, Tu Th 2:40-3:55.

#### FSM BC 1104y. The Idea of the Self.

An investigation of mainly autobiographical texts with particular attention to the terms of self-description, the self as literary subject; significant factors in the definition and realization of self; the interior and exterior life; the self as model for others. Each student will also read one 20th-century autobiography. Readings include:

Ovid, Selections from *Heroides*, *Metamorphoses*, *Tristia*  
Apuleius, *The Golden Ass*  
St. Augustine, *The Confessions* (selections)  
Jean-Jacques Rousseau, *The Confessions* (selections)  
John Stuart Mill, *Autobiography*  
Henry David Thoreau, *Walden*

Lydia Lenaghan, Classics Department  
Spring, M W 2:40-3:55.

#### FSM BC 1106x. Perspectives on Mortality.

Different responses to the fact of mortality will be studied from its acceptance in the Gilgamesh Epic and the Odyssey to the ordeals of the quest to transcend it in the

# Freshman Seminar Program

Bible, Plato, Plutarch and Apuleius. Other readings:

Joseph Campbell, *The Hero with a Thousand Faces*

Alan Segal, *Religion Department*  
Fall, M W 11:00-12:15.

## FSM BC 1108x. Subjective/Objective.

The question to be considered is how to formulate the distinction between those attitudes, judgments, beliefs and emotions that are properly regarded as subjective and those (if any) that are not. The topic will be pursued in a study of literary and philosophical texts. Readings include:

Plato, *Apology*, *Euthyphro*  
Epictetus, *Discourses*  
Montaigne, *Essays*  
Lewis Carroll, *Alice in Wonderland*,  
*Through the Looking Glass*  
Henry James, *Portrait of a Lady*  
E.M. Forster, *Howards End*  
William Faulkner, *The Sound and the Fury*  
Iris Murdoch, *The Sovereignty of God*  
Thomas Nagel, *The View From Nowhere*

Mary Mothersill, *Philosophy Department*  
Fall, M W 11:00-12:15.

## FSM BC 1109x. Text and Setting.

An inquiry into the transformation, through music, of a literary text. How does musical setting alter, enrich or otherwise affect our responses to plot or character? Works drawn from sacred, art song and operatic repertoire. (Musical background not required.) Readings include:

The Requiem Mass  
Kaddish  
William Shakespeare, *Othello*  
Goethe, *Faust*  
Herman Melville, *Billy Budd*  
Thomas Mann, *Death in Venice*

Helene de Aguilar, *Spanish Department*  
Fall, M W 4:10-5:25.

## FSM BC 1110y. The Art of Feigning.

A study of theater and theatricality in four societies: classical Athens, Elizabethan England, the court of Louis XIV, and modern Europe. Dramatic form and technology as they relate to specific social institutions: spectacle, masquerade, sincerity, artificiality, play-acting and identity as artistic problems and as distinctive values in human life. Readings include:

Aristotle, *Poetics*  
Diderot, *The Paradox of Acting*  
Aeschylus, *Oresteia*  
William Shakespeare, *As You Like It*  
Racine, *Phedre*  
Bertold Brecht, *The Caucasian Chalk Circle*

Daniel Selden, *Classics Department*  
Spring, M W 4:10-5:25.

## FSM BC 1111y. Finding the Meaning of Things.

A critical study of the struggle, in poetic and philosophic thought, to locate the significance of things—events, persons, nature, feelings. Is significance something to be found, or is it made by us? If it is made, is it the poet's task to make it, and, if so, how?

Readings from Augustine, Sydney, Milton, Shaftesbury, Pope, Hegel, Coleridge, Emerson, Nietzsche, Heidegger, W.C. Williams, Wallace Stevens.

Robert Tragesser, *Philosophy Department*  
Spring, Tu Th 1:10-2:25.

## FSM BC 1112x. The Ends of Times: Apocalypse in Western Thought.

Judeo-Christian thought on the subject of time obsessively looks forward to its transformation and end. Apocalypse implies both this end, and the uncovering or restoration of truth and proper order which will precede it. The seminar will consider these themes in major western texts, paintings, and films, to include:

St. Augustine, *Daniel*, *Revelation*  
Joachim of Floris, *Tales of King Arthur*  
Shakespeare's *The Tempest*  
Rousseau, Tennyson, Wordsworth,  
Marx, Freud, Yeats, and Joyce.

Christopher Baswell, *English Department*  
Fall, Tu Th 9:10-10:25.

## II. THE INDIVIDUAL AND THE SOCIAL ORDER

These seminars focus on the tensions between the claims of the individual to autonomy and the demands placed upon the individual by society. Each seminar will draw half its readings from the works of authors of the instructor's choosing and half from among the following:

Plato  
*The Bible*  
Thomas More



# Freshman Seminar Program

Nicola Machiavelli  
William Shakespeare  
Thomas Hobbes/John Locke  
Jean-Jacques Rousseau  
Henry David Thoreau  
Karl Marx/Friedrich Engels  
William James  
Sigmund Freud  
Max Weber  
George Orwell

## **FSM BC 1201x. The Artist and Society.**

An investigation of the relationship of the artist and society as it reflects the intellectual climate of the modern age. Readings will include the work of Pirandello, Joyce, and Hesse.

*Marvin Shulman, German Department*  
Fall, M W 2:40-3:55.

## **FSM BC 1203x. The Crisis of Authority.**

An examination of the authority relationship and its collapse. The seminary will consider how authority is accepted, confronted, confined and reconstituted. Readings include the *Book of Job*, *The Republic*, *The Social Contract*, James Madison, and Martin Luther King, Jr.

*Richard Pious, Political Science Department*  
Fall, M W 9:10-10:25.

## **FSM BC 1204x. Nature and Utopia in Western Thought.**

Programs for the regeneration of the individual and the reordering of society, from Plato and the Bible to Marx and Freud. Other readings include St. Benedict, Charlotte Perkins Gilman, and Alexander Solzhenitsyn.

*Jeffrey Merrick, History Department*  
Fall, M W 1:10-2:25.

## **FSM BC 1208y. Power and Justice.**

An examination of ideas of power and justice in law and literature. Readings will include selections from the Bible; Plato and Socrates; Machiavelli and Shakespeare; Paine and Melville; Marx and Engels; Richard Wright.

*Ruth Kivette, English Department*  
Spring, Tu Th 10:35-11:50.

## **FSM BC 1211y. The Rise of Possessive Individualism.**

This seminar examines the emergence

of the idea of the "economic man." Readings include:

Thomas Hobbes, *The Leviathan*  
Karl Marx, *Capital*  
Edward Bellamy, *Looking Backward*  
J. B. MacPherson, *Possessive Individualism*  
Norman O. Brown, *Life Against Death*  
John Maynard Keynes, *Essays in Persuasion*

*André Burgstaller, Economics Department*  
Spring, Tu Th 4:10-5:25.

## **FSM BC 1212x. Women, Men, and Work.**

A consideration of the idea and reality of work in society. Seminar will look specifically at the impact of technological developments on work patterns and the changing relationships between women and men. Readings include:

Friedrich Engels, *The Origin of the Family, Private property, and the State*  
Charles Dickens, *Oliver Twist*  
Herman Melville, "Bartleby, the Scrivener"  
C. Wright Mills, *White Collar*  
Studs Terkel, *Working*  
John Updike, *Rabbit Is Rich*  
Rosabeth Moss Kanter, *Men and Women of the Corporation*

*Cynthia Saltzman, Anthropology Department*  
Fall, Tu Th 2:40-3:55.

## **FSM BC 1213y. Women and the Social Order.**

An analysis of the treatment of women as individuals and as a group in the tradition of Western political and social thought. Contributions by women to 19th and 20th-century currents of feminist thought will also be considered. Readings include:

Plato, *The Republic*  
*The New Testament*  
Mary Wollstonecraft, *Vindication of the Rights of Women*  
Margaret Fuller, *Woman versus Man*  
Friedrich Engels, *The Origin of the Family, Private Property, and the State*  
Charlotte Perkins Gilman, *Women and Economics*

Simone de Beauvoir, *The Second Sex*  
*Barbara Tischler, History Department*  
Spring, Tu Th 10:35-11:50.

## **FSM BC 1214y. The Many Faces of Power.**

An enquiry into the meanings of power, and power relations in contexts such as the family.

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the development of knowledge, individual psychology, moral systems. Readings include works by Demming, Engels, Freud, Janeway, T. Kuhn.

*Lila Braine, Psychology Department*  
Spring, M W 11:00-12:15.

## III. WOMEN IN LITERATURE AND CULTURE

An investigation into the ways in which women's experience has been imagined in literature and constructed in culture and in society. Emphasis will be on female destiny and desire—rites of passage; modes of rebellion; possibilities and limits; knowledge, freedom and duty; alternative visions and strategies. Attitudes toward myth, female sacrifice, courtship, marriage, motherhood, adultery, and work will be considered. Readings will include major works of Western and non-Western literature in the critical context of the new scholarship on women.

Each seminar will draw approximately two-thirds of its readings from the following core list of writings:

Virginia Woolf, *A Room of One's Own*  
Homer, *The Odyssey*  
Sophocles, *Antigone*  
Kalidasa, *Sakuntala*  
William Shakespeare, *As You Like It*  
Leo Tolstoy, *Anna Karenina*  
Alice Walker, *The Color Purple*  
Lyric poetry by Sappho, early Buddhist nuns, Anna Akhmatova, Sylvia Plath, Adrienne Rich, Audre Lorde.  
Selected essays by Nancy Chodorow, Carol Gilligan, Sherry Ortner.

## FSM BC 1301x. Women in Culture and Literature.

Special texts:

Ivan Turgenev, *A Nest of Gentle Folk*  
Christine de Pizan, *The Book of the City of Ladies*

*Marina Astman, Russian Department*  
Fall, M W 11:00-12:15.

## FSM BC 1306y. Women in Culture and Literature.

Special texts:

*Homeric Hymn to Demeter*  
Sigmund Freud, *Dora: Analysis of a Case History of Hysteria*

*Susan Sacks, Education Program*  
Spring, Tu Th 2:40-3:55.

## FSM BC 1309y. Women in Culture and Literature.

Special texts:

Geoffrey Chaucer, "Wife of Bath's Tale," "The Second Nun's Tale," "The Clerk's Tale," in *The Canterbury Tales*  
Virginia Woolf, *Orlando*  
Kate Chopin, *The Awakening*

*Timea Szell, English Department*  
Spring, M W 11:00-12:15.

## FSM BC 1310y. Women in Culture and Literature.

Special texts:

Fernando de Roja, *Celestina*  
García Lorca, *Blood-Wedding; Yerma; The House of Bernarda Alba*

*Mirella Servodidio, Spanish Department*  
Spring, M W 1:10-2:25.

## IV. ASPECTS OF THE MODERN CONDITION

These seminars are concerned with the different ways literary artists portray and social critics analyze the contemporary Western world. Readings include works of fiction, biography, and social theory.

## FSM BC 1401x. The Modern Idea of Freedom.

This seminar examines texts, from the seventeenth to the twentieth century, which constitute a meditation on the relationship of language to freedom and on the individual's freedom to express his individuality in the language everyone else uses. Readings include:

Pedro Calderon de la Barca, *Life Is a Dream*  
Jonathan Swift, *Travels into Several Remote Regions of the World*  
Jorge Luis Borges, "Tlong, Ugbar, Orbis Tertius"  
Thomas Pynchon, *The Crying of Lot 49*.

*Alfred MacAdam, Spanish Department*  
Fall, Tu Th 10:35-11:50.

## FSM BC 1402x. Twentieth Century Humanism.

Close textual analysis of the multiple aspects of twentieth century humanism through a study of some of the major European literary, historical, philosophical and ideological sources. Readings include:

Ossip E. Mandel'shtam, *Complete Poems* (selections)



# Freshman Seminar Program

Bertold Brecht, *The Good Woman of Szechuan*  
André Malraux, *Man's Fate*  
Maxim Gorki, *The Lower Depths*  
Georges Bernanos, *Diary of a Country Priest*  
Cesar Vallejo, Selections from an anthology of his poetry

*Serge Gavronsky, French Department*  
Fall, Tu Th 9:10-10:25.

## FSM BC 1403x. The Rise and Fall of Liberalism.

The ethos of liberalism has been at the ideological center of the modern, industrial world. This seminar examines classic statements of the liberal ideal, major challenges to it, and how liberal ideas have changed over time. Readings include:

John Locke, *Two Treatises on Government*  
Adam Smith, *The Wealth of Nations*  
Mary Wollstonecraft, *A Vindication of the Rights of Women*  
Rosa Luxemburg, "Leninism or Marxism?"  
V.I. Lenin, *What Is To Be Done?*  
Sigmund Freud, *Civilization and Its Discontents*  
John Maynard Keynes, *Essays in Persuasion*  
Milton Friedman, *Capitalism and Freedom*

*William McNeil, History Department*  
Fall, M W 11:00-12:15.

## FSM BC 1409x. Music in Literature.

The ways music has affected authors as reflected in their writing: how this mixture of art takes place; how a writer's view of music affects the narrative structure of the work. Readings include:

Shakespeare, *The Tempest*  
E.T.A. Hoffmann, *The Sandman* or *Councillor Krespel*  
Thomas Mann, *Tristan* or *The Blood of the Walsung*  
George Sand, *The Bagpipers*  
Willa Cather, *Lucy Gayheart*  
Aldous Huxley, *Point Counter Point*  
Proust, *Swann's Way*  
Selections from the poetry of Pirandello, Verlaine, Yeats, T.S. Eliot, Goethe and Baudelaire.

*David Powell, French Department*  
Fall, M W 1:10-2:25.

## FSM BC 1407y. Time and the Individual.

A consideration of various conceptions and experiences of time. Readings will include se-

lections from the following: Augustine, Kant, Bergson, William James, Proust, Heidegger.  
*Patricia Carpenter, Music Department*  
Spring, Tu Th 2:40-3:55.

## V. CROSS-CULTURAL ENCOUNTERS

These seminars consider imaginative and analytic efforts by one culture to comprehend aspects of another culture which are themselves instances of such efforts.

### FSM BC 1506x. Utopian Dreams: East and West.

An examination of the ideas of visionaries such as Plato, Confucius, and the New England Puritans; an exploration of attempts to transform these visions into reality. Readings include:

Confucius, *The Analects*  
Plato, *The Republic*  
Ray Huang, *1587: A Year of No Significance*  
John Bunyan, *The Pilgrim's Progress*  
R.R. Palmer, *Twelve Who Ruled*  
*Mark Carnes, History Department*  
Fall, M W 11:00-12:15.

### FSM BC 1507y. Intercultural Frontiers.

Focus will be on the progressive narrowing of cultural frontiers accompanying the technological collapse of geographical distances separating the Family of Man; the ever advancing global self-reflection of the contemporary West traced forward from the world of Marco Polo. Readings include:

Marco Polo, *The Travels*  
Shusako Endo, *Silence*  
Pierre Loti, *Madame Chrysantheme*  
Marguerite Duras/Alain Resnais, *Hiroshima, Mon Amour*  
Italo Calvino, *Invisible Cities*

*Konrad Czynski, French Department*  
Spring, M W 1:10-2:25.

### FSM BC 1509x. Evil, Justice, and Sacrifice.

Consideration of the themes of evil, justice and sacrifice in select Biblical texts, as well as interpreted in classical, medieval and modern literature of East and West. Readings include:

*The Old Testament*  
*The Song of Roland*  
Joseph Conrad, *The Heart of Darkness*  
Sören Kierkegaard, *Fear and Trembling*  
Herman Melville, *Billy Budd*  
Shusako Endo, *Silence*

*Brian Smith, Religion Department*  
Fall, Tu Th 10:35-11:50.

# Geology

Office: 328B Milbank Hall

Telephone: 280-4312, 5417

## Professor

John E. Sanders

Other officers of the University offering courses in Geology:

## Professors

Wallace Broecker, Arnold Gordon, Dennis Hayes, James Hays, John Kuo, Paul Richards, James Simpson, Lynn Sykes, David Walker, Anthony Watts

## Associate Professor

Warren Yasso

## Adjunct Associate Professors

Roger N. Anderson, William B.F. Ryan

## Assistant Professors

Philip M. Carrion, Nicholas Christie-Blick, Charles Langmuir, William Mencke, Paul E. Olsen, G. Alan Zindler

## Lecturer

Anthony Del Genio

Geology is the scientific study of the Earth for the purpose of understanding how past activities have led to present conditions and of how present conditions affect the future. Modern geology involves application of mathematics, physics, chemistry, biology, and computers toward solving problems of the Earth as a planet in the Solar System, of the large-scale dynamics of the Earth, of the locations of supplies of natural resources, of the fabric and history of the rock record, and of the origin and history of life. Geology can be applied at many levels, from providing a basis for understanding one's surroundings to background for careers in law, architecture, land-use planning, and real estate to professional careers in research.

Special resources for study of geology at Barnard include those within the College, within the University, and in and around New York City. Barnard facilities in Milbank Hall include photographic darkroom and sedimentology laboratory. Columbia University facilities in Schermerhorn Hall include teaching laboratories and collections of specimens, and a large research library. The Lamont-Doherty Geological Observatory offers the Geoscience Library, extensive collections of deep-sea sediments and sea-floor rock specimens, and research facilities in geochemistry, seismology, marine geology and geophysics, mineral physics and micropaleontology, all available to qualified undergraduate majors. The School of International and Public Affairs houses a large collection of maps and U.S. government documents. New York City resources include the American Museum of Natural History with a large collection of research materials, the Goddard Institute of Space Studies, the New York Public Library, Engineering Societies Library, and United Nations Library.

## REQUIREMENTS FOR THE MAJOR

Students contemplating a major in geology should consult with the chairman of the department. Majors should plan their programs for their junior and senior years with a view toward including, as desired, courses that are offered only in alternate years. Those who are considering careers for which a doctorate is required should include two foreign languages (German, French or Russian are usually specified) in their programs, as well as the basic science background courses expected of geology majors (one year of physics, chemistry, and mathematics through calculus; familiarity with computers is desirable).

Various major options are possible, including but not limited to classical geology, with emphasis on biologic or nonbiologic aspects; geophysics; geochemistry; environmental geology; and Earth sciences.



Majors should plan to spend at least one summer in geological mapping at an approved geology field camp, in research activities at an oceanographic institution, or as a participant in an approved field research program being carried out elsewhere.

There is no major examination, but a satisfactory research paper prepared in conjunction with a senior seminar is required.

A minimum of 8 courses is required for the major including

V 1011, V 1012	<i>Introduction to Earth Sciences, I and II</i>
W 3001	<i>Time in the Earth Sciences</i>
W 4113	<i>Introduction to Mineralogy I</i>
W 4701	<i>Introduction to Igneous and Metamorphic Petrology</i>
BC 3060	<i>Seminar in Geology</i>

and one of the following courses:

W 4223	<i>Introduction to Sedimentary Geology</i>
W 4232	<i>Concepts and Methods in Biostratigraphy</i>
W 4411	<i>Principles of Structural Geology</i>
W 4661	<i>Introduction to Invertebrate Paleontology</i>

Exceptions may be made with the approval of the chairman of the department.

## REQUIREMENTS FOR THE MINOR

A minimum of 5 courses is required for the minor, including V 1011-V 1012 and any three upper-level courses.

## COURSES OF INSTRUCTION

### GEY V 1011x. Introduction to Earth Sciences, I.

Evolutionary processes and history of planet Earth, its oceans, and atmosphere. Part I: Cosmochemical and geochemical evidence of the evolution of the solar system and early history of Earth. Part II: Geological evolution and history of Earth's crust and lithosphere.—W. Broecker and J. Hays.

*Prerequisite:* Basic high-school chemistry, physics and mathematics.

4 points. Lecture M W F 10:00. Laboratory (3 hours). Hours to be arranged.

### GEY V 1012y. Introduction to Earth Sciences, II.

Evolutionary processes and history of planet Earth, its oceans, and atmosphere. Part III: Evidence from oceanography and atmospheric science for dynamics of Earth's oceans, atmosphere, and climate. Part IV: Evidence from heat flow, seismology, gravity, and magnetism for the large-scale structure and dynamics of the whole Earth.—A. Gordon and A. Watts.

*Prerequisite:* Basic high-school chemistry, physics, and mathematics.

4 points. Lecture M W F 10:00. Laboratory (3 hours). Hours to be arranged.

### GEY V 1411x. Introduction to Earth Sciences, I.

The same course as V 1011x, but without laboratory.—W. Broecker and J. Hays.

*Prerequisite:* Basic high-school chemistry, physics, and mathematics.

3 points. Lecture M W F 10:00.

### GEY V 1412y. Introduction to Earth Sciences, II.

The same course as V 1012y, but without laboratory.—A. Gordon and A.B. Watts.

*Prerequisite:* Basic high-school chemistry, physics, and mathematics.

3 points. Lecture M W F 10:00.

### GEY V 1053y. Planet Earth.

Accelerated look at how the Earth works. The unifying concept of plate tectonics used to examine surface and internal processes in

# Geology

the Earth. The formation of the Earth followed by a phenomenological analysis of the forces affecting the surface and the body of the Earth with its heat engine, vulcanism, seismology, magnetism, and gravity. Earthquake prediction, ridge-axis hot springs, volcanicity, and deep-sea drilling used to present basic concepts of Earth Science.—R.N. Anderson.

*Prerequisite: High-school physics, chemistry, and mathematics.*

*3 points. Tu Th 9:00-10:15.*

## **GEY W 3001x. Time in the Earth Sciences.**

Fundamentals of paleontological and radiochemical methods by which relative and absolute time are estimated throughout the geological record. Attention will also be given to isotope measurements or rates of significant processes occurring in the present-day ocean.—J. Hays and P.E. Olsen.

*Prerequisite: V 1011x-V 1012y or permission of the instructor.*

*3 points. Tu Th 11:30-12:45.*

## **GEY V 3015x. Chemical Cycles in the Environment.**

Detailed study of the cycles of chemical species in the environment, including carbon, nitrogen, phosphorus, and sulfur compounds; major cations; trace metals; and organic pollutants. Emphasis on human-induced perturbations of natural cycles.—R. Bopp.

*Prerequisite: Introductory courses in chemistry and environmental science or equivalent, or instructor's permission.*

*3 points. Tu Th 10:35-11:50.*

## **GEY V 3016y. Environmental Measurements.**

Modern methods (including spectrometric and chromatographic) used in analysis of environmental samples for monitoring or for research. Standard and advanced techniques of air, water, sediment, and soil analysis.—R. Bopp.

*Prerequisite: Solid background in chemistry or instructor's permission.*

*Alternate years.*

*3 points. Lecture Tu Th. Hours to be arranged.*

*Laboratory Tu or Th 12:00-12:50.*

## **GEY V 3522y. Exploration Geology and Mining Geophysics, I.**

Geological environment of mineral deposits and their structural control. Ore genetical principles as a guide to mineral deposits. Geochemical and geophysical anomalies

related to mineral and hydrocarbon deposits, their detection and interpretation.—P. Carrion.

*Prerequisite: V 1011-V 1012 or the equivalent.*  
*3 points. Hours to be arranged.*

## **GEY W 4008x. Introduction to Atmospheric Science.**

Basic physical processes controlling atmospheric structure; thermodynamics; radiation physics and radiative transfer; principles of atmospheric dynamics; cloud processes; applications to Earth's atmospheric general circulation, climatic variations, and the atmospheres of the other planets.—A. Del Genio.

*Prerequisite: Advanced calculus and general physics or permission of the instructor.*

*3 points. Tu Th 11:30-12:45.*

## **GEY W 4009y. Chemical Geology.**

Thermodynamics as applied to Earth systems.—D. Walker.

*3 points. Tu Th 11:30-12:45.*

## **GEY W 4113x. Introduction to Mineralogy, I.**

Elementary crystallography and crystal structures, optical properties of minerals, mineral associations and phase equilibria, economic minerals in hand specimen, chemical and physical tests, and use of petrographic microscope.—D. Walker.

*Prerequisites: V 1011-V 1012 and elementary college physics and chemistry, or permission of the instructor.*

*3 points. Lecture Tu Th 2:30-3:45. Laboratory Tu 4:30-7:30.*

## **GEY W 4223x. Introduction to Sedimentary Geology.**

Historical and philosophical foundations; sedimentary processes and deposits. Composition, textures, fabrics, primary structures; strata; classification; diagenesis; correlation; seismic stratigraphy; stratigraphic and palinspastic maps; analysis of subsidence history.—N. Christie-Blick, J.E. Sanders.

*Three required weekend field trips (13-14 Sept., 27-28 Sept., 25-26 Oct.) and three papers, one related to each field trip.*

*Laboratory and field trip fee: \$75.*

*Prerequisite: W 4113 or the instructors' permission.*

*4 points. Lecture Tu Th 2:30-3:45. Laboratory Tu 4:30-7:30.*



## **GEY W 4232y. Concepts and Methods in Biostratigraphy.**

History and philosophy of biostratigraphy; biologic classification; the nature of living and fossil taxa; correlation and concepts of zones; relationships among evolution, biogeography, and correlation; biofacies concepts; review of important organisms; applications, including regional correlation, economic geology, and evolutionary studies.—P.E. Olsen.

*Prerequisite:* *Geology V 1011-V 1012 or the instructor's permission.*

*Alternate years.*

*3 points. Tu Th 11:30-12:45.*

## **GEY W 4411y. Principles of Structural Geology.**

Elementary stress and strain theory; stress and strain determination from geologic structures, folds, and faults; geologic structures of divergent, transform and convergent plate boundaries. Laboratory work consists of time analysis of geologic structures in maps, crosssections, hand specimens, and thin sections. Mandatory field trips.—Instructor to be announced.

*Prerequisites:* *V 1011-V 1012 or the equivalent; W 4113 and W 4701.*

*3 points. Lecture Tu Th 2:30-3:45. Laboratory Tu 4:30-7:30.*

## **GEY W 4501y. Introduction to Economic Geology.**

Broad survey course suitable for students majoring in sciences and engineering. Mineral resources of the world; geological descriptions of metallic and non-metallic mineral deposits; geochemical theory of the formation of mineral deposits; and exploration and mining methods.—T. Takahashi.

*Prerequisites:* *Chemistry C 1407 and Geology W 4113, or their equivalents, or the instructor's permission.*

*Alternate years.*

*3 points. Tu Th 10:00-11:15.*

## **GEY W 4661y. Introduction to Invertebrate Paleontology.**

The history of life as revealed in the fossil record. A systematic survey of the morphology, ecology, taxonomy, and evolutionary history of groups of invertebrate animals commonly found as fossils.—P.E. Olsen and J. Hays.

*Prerequisite:* *V 1011-V 1012 or permission of the instructor.*

*Alternate years.*

*3 points. Lecture Tu Th 1:00-2:15.*

*Laboratory Tu 4:30-7:30.*

## **GEY W 4701y. Introduction to Igneous and Metamorphic Petrology.**

Compositional characteristics of igneous and metamorphic rocks as indicators of their genesis and evolution. Petrologic aspects of Earth's crust and upper mantle. Development of igneous and metamorphic rocks in a plate-tectonic framework. Students not majoring in terrestrial geology may elect to write a substantial term paper rather than attend the laboratory.—C. Langmuir.

*Prerequisite:* *V 1011-V 1012. W 4113 and knowledge of chemistry recommended.*

*4 points. Lecture Tu Th 2:30-3:45. Laboratory Th 4:30-7:30.*

## **GEY W 4883x. Principles of Geochemistry, I.**

Introduction to radiochemistry; radiometric dating; processes responsible for chemical makeup of the solar system and the Earth; geochemistry of crust-mantle processes.—G.A. Zindler.

*Recommended preparation:* *A sound background in basic chemistry.*

*3 points. Tu Th 11:30-12:45.*

## **GEY W 4884y. Organic Geochemistry.**

Survey of organic geochemistry suitable for students with a strong chemistry background majoring in geology, chemistry, or biology. Origin of organic compounds in oceans, lakes, and sediments; and transport and fate of organic pollutants.—R. Bopp.

*Prerequisite:* *One year of college chemistry.*

*Permission of the instructor required. Alternate years.*

*3 points. Tu Th 1:00-2:25.*

## **GEY W 4885x. Principles of Geochemistry, II.**

Introduction to geochemical cycles involving the atmosphere, ocean, land, and biosphere; chemistry of precipitation, weathering reactions, rivers, lakes, estuaries, and sedimentary rocks; stable-isotope and radioactive tracers of transport processes in continental waters and the ocean.—P. N. Froelich, H. J. Simpson.

*Recommended preparation:* *A sound background in basic chemistry. Alternate years.*

*3 points. Hours to be arranged.*

# Geology

## **GEY W 4925y. Principles of Physical Oceanography.**

Physical properties of sea water, water masses, and their distribution, sea-air interaction influences on the ocean structure, basic ocean-circulation pattern, relationship of diffusion and advection with respect to distribution of ocean properties, measurement techniques, and methods of data processing and analysis.—A. Gordon.

*Recommended preparation: A sound background in mathematics, physics, and chemistry.*  
3 points. Tu Th 2:30-3:45.

## **GEY W 4928x. Submarine Geology.**

Survey of the geology of deep-sea topography, sediments, crustal rocks, tectonic- and sedimentary processes.—W.B.F. Ryan.

*Prerequisite: V 1011-V 1012 or the equivalent.*  
*Alternate years.*  
3 points. Tu Th 1:00-2:15.

## **GEY W 4949y. Introduction to Seismology.**

Basic methods of seismogram analysis. Classification of seismic waves and elementary theory of body waves and normal modes. Elementary aspects of seismic prospecting, earthquake-source theory, instrumentation discriminating between explosions and earthquakes, inversion of seismic data to infer Earth structure, earthquake engineering, estimation of seismic risk, and earthquake prediction.—P. Richards.

*Prerequisite: One year of college physics and calculus.*  
3 points. Tu Th 10:00-11:15. Two-hour laboratory every other week at Lamont-Doherty Geological Observatory to be arranged.

## **GEY BC 3060y. Seminar in Geology.**

Discussions, problems, and readings on various problems in geology.—J.E. Sanders.  
*Required of senior majors. Students should consult with the chairman at the beginning of the senior year.* *Prerequisite: At least one year of geology.*  
4 points. Hours to be arranged.

## **COLUMBIA COURSES**

The following courses, listed by subdivisions of the Columbia Department of Geological Sciences, are open to qualified students with the permission of the Barnard chairman.

## **TERRESTRIAL AND MARINE GEOLOGY**

**W 3000x, y. Tutorial Study in the Earth Sciences.**

## **TERRESTRIAL GEOLOGY**

**W 4001x. Advanced General Geology, I.**

**W 4002y. Advanced General Geology, II.**

**W 4053x. Geology of the New York Region.**

**W 4076y. Geologic Mapping.**

## **GEOPHYSICS: SEISMOLOGY AND ROCK MECHANICS.**

**W 4521x. Exploration Geology and Mining Geophysics, II.**

**W 4901x. Paleomagnetism.**

**W 4942y. Geophysical Methods.**

**W 4943x. Thermal Studies of the Earth.**

**W 4945x. Geophysical Theory I.**

**W 4946y. Geophysical Theory II.**

## **PALEONTOLOGY AND PALEOENVIRONMENT**

**W 4030x-W 4031y. Climatic Change.**

## **OCEANOGRAPHY AND METEOROLOGY**

**TC 5057x. (Teachers College). Coastal Oceanography.**  
M 3:00-4:40.



# German

Office: 320 Milbank Hall

Telephone: 280-8312

## Professors

Brigitte L. Bradley (Chairman), Gertrud M. Sakrawa

## Lecturer

Regina Ayre

## Instructor

Brunhilde Linke

## Senior Associate

Marvin Shulman

Courses in the German Department are designed to develop proficiency in language skills and to present the traditions as well as the current developments in the literature and culture of the German-speaking countries: Austria, West Germany, East Germany, and Switzerland.

The language requirement in German is fulfilled by the completion of BC 1204, *Intermediate Course II*. Entering students with a previous knowledge of German will be placed in the appropriate course on the basis of their CEEB scores or in accordance with their achievements on a placement test taken prior to registration.

In language instruction, the department offers two tracks: 1) a full-year course, German BC 1001-BC 1002, *Elementary Full-Year Course*, and two one-semester courses, German BC 1203-BC 1204, *Intermediate Course I and II*, with an equal emphasis on reading, writing, and speaking; 2) two one-semester courses, German BC 1007, *Elementary German: Intensive Reading*, and German BC 1208, *Intermediate German: Intensive Reading*. The second track courses are designed for students interested in acquiring only a reading knowledge of German. They may not be used to fulfill the language requirement.

Students who have completed, or have been exempted from, BC 1204 may enroll in BC 3005 or BC 3006, *Advanced Oral German and Composition*, or in literature courses taught in German. Special permission is required for enrollment in German BC 3061, BC 3062, the *Seminar* and *Senior Essay*, respectively.

The literature courses taught in German have the twofold objective of combining the study of significant works and cultural manifestations with advanced practice in the use of German both as a written language and as a medium of communication. The department recommends that German BC 3011, *Introduction to German Literature and Civilization*, be elected as the first literature course. There are no prerequisites for courses in German literature in translation.

## REQUIREMENTS FOR THE MAJOR

The major in German includes 9 courses—German BC 3005 or BC 3006, BC 3011 and BC 3061, and six additional advanced courses taught in German. The major examination consists of a three-hour written section (in English) and of an individual oral examination of one-half hour (in German). With special permission a student may submit a senior essay (BC 3062) in place of the written section.

The department recommends that majors include in their programs a minor in another field. While a major in German prepares students for graduate study in German, both a major and, to a lesser degree, a minor in German prepare them also for advanced study in a discipline in which competence in the German language and/or a knowledge of the culture of the German-speaking countries is either required or recommended.

# German

A combined major includes a total of twelve courses, six of them in German: BC 3005 or BC 3006 and five literature courses taught in German, one of which may be BC 3061. At the completion of her program, a student submits an essay on a topic representative of the two fields combined in her major. A combined major is designed with the chairpersons of the two departments and with the approval of the Committee on Programs and Academic Standing.

## REQUIREMENTS FOR THE MINOR

The minor in German requires five courses, German BC 3005 or BC 3006, BC 3011, and three additional literature courses taught in German, one of which may be BC 3061.

## COURSES OF INSTRUCTION

### LANGUAGE COURSES

#### **GER BC 1001x-GER BC 1002y.**

##### **Elementary Full-Year Course.**

Fundamentals of German grammar, comprehension of the spoken language, reading, writing, and speaking. Aural-oral exercises and intensive practice in pronunciation.—M. Shulman and Staff.

*Work with audio-visual cassettes is required.*

*4 points. No credit is given for BC 1001 unless BC 1002 has been satisfactorily completed.*

*Section I M W F 9:00.*

*Section II M W F 10:00.*

*Section III M W F 12:00.*

**In addition, each student must register in the Department for one of the following sections:**

*Section I Tu Th 9:00.*

*Section II Tu Th 11:00.*

*Section III Tu Th 12:00.*

#### **GER BC 1001y. Elementary Full-Year Course. Part I.**

Same as BC 1001x, but given in the Spring Term.—M. Shulman.

*Work with audio-visual cassettes is required.*

*4 points. No credit is given for BC 1001 unless BC 1002 has been satisfactorily completed.*

*M Tu W Th F 12:00.*

#### **GER BC 1002x. Elementary Full-Year Course. Part II.**

Same as BC 1002y, but given in the Autumn Term.—B. Linke.

*Work in the language laboratory is required.*

*4 points. M Tu W Th F 12:00.*

FOR ELEMENTARY AND  
INTERMEDIATE READING COURSES  
SEE GERMAN BC 1007, BC 1208.

#### **GER BC 1203x. Intermediate Course I.**

Complete grammar review through regular exercises. Texts by modern authors are used for close and rapid reading. Practice in conversation aims at enlarging the vocabulary necessary for daily communication.—R. Ayre and G. Sakrawa.

*Prerequisite: BC 1002 or the equivalent.*

*3 points.*

*Section I M W F 10:00.*

*Section II M W F 1:10.*

#### **GER BC 1203y. Intermediate Course I.**

Same as BC 1203x, but given in the Spring Term.—M. Shulman.

*Prerequisite: BC 1002 or the equivalent.*

*3 points. M W F 10:00.*

#### **GER BC 1204y. Intermediate Course II.**

German language based on a variety of literary texts: several short stories, one play, one short novel. Assignments include compositions in German and exercises of specific grammatical forms, both related to the texts. Class discussions in German provide oral and aural practice.—B. Bradley and B. Linke.

*Prerequisite: BC 1203 or the equivalent.*

*3 points.*

*Section I M W F 10:00.*

*Section II M W F 1:10.*

#### **GER BC 1204x. Intermediate Course II.**

Same as BC 1204y, but given in the Autumn Term.—B. Bradley.

*Prerequisite: BC 1203 or the equivalent.*

*3 points. M W F 10:00.*

#### **GER BC 3005x, BC 3006y. Advanced Oral German and Composition.**

Discussions of contemporary issues and events based on items in the German press



and taped current German broadcasts; weekly short papers and oral reports; emphasis on idiomatic usage and vocabulary building through topical variety; exercises in syntax and style.—G. Sakrawa.

*Prerequisite: BC 1204 or the equivalent.*

3 points. Fall: M W F 10:00.

Spring: M W F 1:10.

## **GER BC 1007x. Elementary German: Intensive Reading.**

Comprehension of written German. Extensive reading of simple expository texts, fundamental vocabulary, and the essentials of grammar and syntax.—M. Shulman.

*No previous knowledge of German is required.*

*This course is not open to students who have completed German BC 1001-BC 1002.*

3 points. M W F 9:00.

## **GER BC 1208y. Intermediate German: Intensive Reading.**

Comprehension of written German. Reading of materials in areas of specialization in the humanities, social sciences, and the natural sciences; attention is given to the structural forms encountered when translating German scholarly texts.—M. Shulman.

*Prerequisite: BC 1007 or the equivalent.*

*Not offered in 1986-87.*

3 points.

## **LITERATURE COURSES**

The literature courses listed below are conducted in German. Examinations are written in English. Papers may be written in German or English.

For a course conducted in English, see GERMAN LITERATURE IN TRANSLATION. BC 3055.

## **GER BC 3011x. Introduction to German Literature and Civilization.**

Survey of German literature and civilization from the Age of the Enlightenment to the twentieth century. Readings are selected from literary works representative of each period, and from various literary genres. Lectures on the intellectual and historical background.—B. Bradley.

*Prerequisite: BC 1204 or the equivalent.*

3 points. M W F 11:00.

II/H

## **GER BC 3014x. German Literature around the Turn of the Twentieth Century.**

One of the richest and most diversified periods

in the history of German literature: plays, prose writings, and poems by Hauptmann, Hofmannsthal, Kaiser, Hesse, Mann, Rilke, and Kafka.—B. Bradley.

*Prerequisite: BC 1204 or the equivalent.*

*Alternate years. Not offered in 1986-87.*

3 points.

II/H

## **GER BC 3015x. Goethe.**

Major works of Goethe in the contexts of his life and his times: *Werther*, *Iphigenie*, *Tasso*, *Wahlverwandschaften* and *Faust I*.—G. Sakrawa.

*Prerequisite: BC 1204 or the equivalent.*

*Alternate years. Not offered in 1986-87.*

3 points.

II/H

## **GER BC 3016y. The Romantic Movement in Germany 1790-1820.**

Theory of Romantic poetry as proposed by the Schlegel brothers; circles of Jena, Berlin and Heidelberg; prominent women of the time. Movement's impact on scholarship and translation, and on similar movements abroad. Poetic works by Tieck, Novalis, Hölderlin, Kleist, Hoffmann, and Eichendorff.—G. Sakrawa.

*Prerequisite: BC 1204 or the equivalent.*

*Offered every three years. Not offered in 1986-87.*

3 points.

II/H

## **GER BC 3018x. Schiller.**

Schiller's dramas and some of his philosophical essays.—G. Sakrawa.

*Prerequisite: BC 1204 or the equivalent.*

*Alternate years. Not offered in 1986-87.*

3 points.

II/H

## **GER BC 3025y. The Age of the Bourgeoisie in German Literature.**

Drama, poetry, and prose by Heine, Grillparzer, Büchner, Wagner, Keller, Storm, Stifter, and Fontane.—G. Sakrawa.

*Prerequisite: BC 1204 or the equivalent. Offered every three years. Offered in 1986-87.*

3 points. Tu Th 9:10-10:25.

II/H

## **GER BC 3026y. Modern German Theatre.**

Brecht and well-known playwrights of the post-war period: Kipphardt, Frisch, Weiss, Dürrenmatt, Walser, and others. The plays are approached from the perspective of drama on the stage as a forum used to raise consciousness among the public.—B. Bradley.

*Prerequisite: BC 1204 or the equivalent.*

*Alternate years. Offered in 1986-87.*

3 points. M W F 11:00.

II/H

# German

## **GER BC 3028x. Contemporary German Prose Fiction.**

Selected works by post-war writers from West and East Germany, Austria and Switzerland: Böll, Bachmann, Frisch, Grass, Christa Wolf, Handke, and others. Analyses and discussions concentrate on predominant themes, on differences in narrative techniques, and on the effectiveness of fictional writings in exploring or exposing problems of individual and general concern.—B. Bradley.

*Prerequisite: BC 1204 or the equivalent.*

*Alternate years. Not offered in 1986-87.*

3 points.

II/H

## **GER BC 3036x. Goethe's Faust.**

Intensive study of Goethe's *Faust*, Part I and II.—G. Sakrawa.

*Prerequisite: BC 1204 or the equivalent.*

*Not offered in 1986-87.*

3 points.

II/H

## **GER BC 3045y. Literary Traditions in the Time of the Medieval Empire.**

Introduction to the feudal age and to German literature from 1200 to about 1400: *Parzival*, *Tristan*, and *Das Nibelungenlied*. Texts used for reading are in modern German.—R. Ayre.

*Prerequisite: BC 1204 or the equivalent.*

*Offered every three years. Not offered in 1986-87.*

3 points.

II/H

## **GER BC 3046x. German Literature in the Eighteenth Century.**

An introduction to the Enlightenment and Storm and Stress through works by Lessing,

Wieland, Herder, the young Goethe, and the young Schiller.—G. Sakrawa.

*Prerequisite: BC 1204 or the equivalent.*

*Alternate years. Offered in 1986-87.*

3 points. Tu Th 9:10-10:25.

II/H

## **GER BC 3061x. Seminar. Christa Wolf and Ingeborg Bachmann.**

Themes and literary structures in selected prose works of two contemporary women writers.—B. Bradley.

*Prerequisite: Major status or permission of the instructor.*

*Alternate years. Offered in 1986-87.*

4 points. M 2:10-4:00.

## **GER BC 3062y. Senior Essay.**

The topic must be related to one of the literature courses that the student has completed in the department.—B. Bradley and G. Sakrawa. *Open to senior majors. Permission of the instructor required.*

3 points. Regular consultations with the instructor at hours to be arranged.

## **GERMAN LITERATURE IN TRANSLATION**

### **GER BC 3055x. Major Works of German Literature.**

Selected works in translation by Schiller, Goethe, Kleist, Hesse, Thomas Mann, Kafka, and Brecht.—R. Ayre.

*No prerequisite.*

*Alternate years. Not offered in 1986-87.*

3 points.





# Health and Society

*Office: 410 A Milbank Hall*

*Telephone: 280-2868*

The Health and Society Program is supervised by an Executive Committee:

**Samuel R. Milbank Associate Professor of Health and Society**  
Nicholas Rango

**Professor of Sociology**  
Bernard Barber

**Professor of Psychology**  
Rae Silver

**Professor of Medicine**  
André Cournand<sup>1</sup>

**Professor of Physics**  
Richard Friedberg

**A. Barton Hepburn Professor of Economics**  
Eli Ginzberg (Chairman)

**University Professor**  
Robert K. Merton<sup>1</sup>

**Vice President for Academic Affairs and Dean of the Faculty**  
Charles S. Olton

**Dean, School of Public Health, Faculty of Medicine**  
Allan Rosenfield

**Professor of Public Health (Epidemiology)**  
Zena Stein

Officers of the College and University participating in Health and Society:

**A. Barton Hepburn Professor of Economics**  
Eli Ginzberg

**Brookdale Professor of Gerontology**  
Abraham Monk

**Samuel R. Milbank Associate Professor of Health and Society**  
Nicholas Rango (Program Director)

**Lecturers in Health and Society**  
Theresa Rogers, Adrienne Asch, Natalie Friedman, Phyllis Vine

<sup>1</sup>Emeritus

Health and Society is an interdisciplinary program created to address historical and contemporary issues in the field of health care from health science, social science, and humanistic perspectives. The Program has three objectives: to introduce the logical processes for establishing causes in the health sciences, to identify the limits of scientific knowledge in the health sciences, and to develop decision-making skills under conditions of scientific uncertainty. The Program applies this approach to undergraduate education by developing an interdisciplinary curriculum that focuses upon the distinction between and interconnection of scientific fact and value judgments.

Acquiring the substantive background and the methodological skills necessary to address problems in areas which do not adhere to traditional academic disciplines will prepare students for a variety of post-graduate options: graduate study in the social sciences or humanities, professional study in medicine and allied health areas, and careers in public health and health administration. Equally important, the Health and Society Program seeks to satisfy the intellectual needs of students not planning graduate study, but concerned about the social context of health and health care.

# Health and Society

## REQUIREMENTS FOR THE MINOR

Five courses are required for the minor.

Two of the following courses:

Health and Society BC 1001	<i>Fact and Value in the Health Sciences</i>
or	
Health and Society BC 1004	<i>Health, Illness, and the Social Environment</i>
Philosophy V 3720	<i>Ethics and Medicine</i>

One of the following courses:

Anthropology V 3128	<i>Medical Anthropology</i>
Sociology V 3228	<i>Sociology of Medicine</i>
Economics W 4460	<i>Health Economics</i>
Health and Society BC 1008	<i>Political Economy of Health Care</i>
Geography W 4039	<i>Medical Geography</i>
Health and Society BC 1005y	<i>Medical Care in Twentieth Century America</i>
Psychology BC 3143	<i>Health Psychology</i>

Two of the following courses:

Health and Society BC 1006	<i>Social Gerontology</i>
Health and Society BC 1007	<i>History of Mental Illness and Its Treatment</i>
Health and Society BC 1009	<i>Caring for the Mentally Ill: Treatment and Policy Issues</i>
Health and Society BC 1010	<i>The Disabled in Contemporary Society</i>
Health and Society BC 1011	<i>World Hunger and Malnutrition: A Historical Perspective</i>
Health and Society BC 3011	<i>Institutionalization</i>
Health and Society BC 3013	<i>Women, Health, and Health Care</i>

Students interested in this minor should consult with the Health and Society Program as early as possible in their academic program. Those who wish to coordinate the Health and Society minor with work in their major should seek the advice and approval of both departments. Such coordination with the major is not necessary to fulfill the above requirements for the minor in Health and Society.

## COURSES OF INSTRUCTION

### HEA BC 1001y. Fact and Value in the Health Sciences.

A historical and cultural overview of medicine and public health; the societal context of health and health care. Problems defining and assessing states of well-being and illness, the logic of scientific inquiry in the health sciences, fundamental concepts of public health biology, bases of clinical decision-making, values and value conflicts in clinical decision-making, and the imperatives of decision-making under conditions of scientific and clinical uncertainty.—N. Rango.

*Background in science not required. Alternate years. Offered in 1986-87.*

3 points. Hours to be arranged V/S

### HEA BC 1004y. Health, Illness, and the Social Environment.

Examination of how the social environment influences an individual's state of health. Emphasis on two kinds of stress: social and illness-induced, the former referring to stressful life experiences, the latter to the psychological and emotional consequences of ill-

ness. Special attention to the doctor-patient relationship in the management of stress.—N. Rango.

*Alternate years. Offered in 1987-88.*

3 points. V/S

### HEA BC 1005y. Medical Care in Twentieth Century America.

A historical and institutional analysis of the American experience in the delivery of medical care. The focus will be on critical trends during this century that have influenced the organization, control, and content of medical services today. These trends include the reform of medical education and of allied health professions, the rise of specialization, the increasing sophistication of costly medical technologies, the imbalance between personal medical services and public health concerns, and the rise of a non-professional health care system.—Theresa Rogers.

3 points. M W 1:10-2:25. V/S

### HEA BC 1006x. Social Gerontology.

The later stages of the human life cycle and current policies and programs for the aged; demographic changes in American society;



# Health and Society

the biological, clinical, social, psychological, and economic aspects of the aging process; problems affecting the aged; and the socially organized response to the needs of the elderly. Field activities at long-term care institutions and multi-service centers.—N. Rango with A. Monk, Brookdale Institute.

*Offered in 1987-88.*

*3 points.*

*V/S*

## **HEA BC 1007x. History of Mental Illness and Its Treatment.**

The history of psychiatric thought and treatment and the changing role of the mentally ill in Western societies. Clinical and epidemiological aspects of mental disorders, and diagnostic problems and ethical issues in psychiatric treatment. The effect of social and economic change on the prevalence, theory, and treatment of mental disorders.

*Recommended: BC 1001y.*

*Alternate years. Offered in 1987-88.*

*3 points.*

*V/S*

## **HEA BC 1008y. Political Economy of Health Care.**

Relation of medicine and society with particular reference to the organizational structure of the medical sector. Distribution of economic resources and changing political alignments; need for health reform; critical review of key proposals for new services. The interrelationship of economic, professional, and social factors in the creation and implementation of health policy.—E. Ginzberg.

*Prerequisite: One year's work in social science.*

*Enrollment limited to 35 upperclassmen. Permission of the instructor required for sophomores.*

*3 points. Tu 11:00-1:00.*

*V/S*

## **HEA BC 1009x. Caring for the Mentally Ill: Treatment and Policy Issues.**

Contemporary problems in the treatment of mental illness. Comparative analysis of approaches in United States and selected countries. Influence on diagnosis and therapy of age, gender, race, and class. Critical policy issues emphasized such as deinstitutionalization controversy, informed consent in the psychiatric setting, and third-party reimbursement.—N. Friedman.

*3 points. Tu Th 4:10-5:25.*

*V/S*

## **HEA BC 1010y. The Disabled in Contemporary Society.**

The impact of disability on the individual, the family, and the institutions of contemporary American society. The relationship of disability to other economic, political and ethical issues. Texts include autobiographical and literary accounts as well as clinical,

psychological, social science, legal, and public policy sources.—A. Asch.

*3 points. M W 4:10-5:25.*

*V/S*

## **HEA BC 1011y. World Hunger and Malnutrition: A Historical Perspective.**

Nutrition and malnutrition in historical and contemporary perspective including the social and political context of hunger, food distribution, and famine. Students will explore the ramifications of particular situations (e.g. famine in Ethiopia, food riots and revolution, deprivation during wars) and for particular peoples (the young, aged, differences among classes).—P. Vine.

*3 points. M W 4:10-5:25.*

## **HEA BC 3011x. Institutionalization: Individual, Family, and Professional Perspectives.**

Long-term institutionalization analyzed from three perspectives: individual patient, family, and professional. Conflicts of interest and ethical issues inherent in the decision to institutionalize or deinstitutionalize. Contemporary American institutions, including mental hospitals, homes for emotionally disturbed children, homes for the retarded, nursing homes, and hospices.—N. Rango.

*Prerequisite: BC 1001 or BC 1004. Enrollment limited to 15 students. Offered in alternate years.*

*Offered in 1986-87.*

*4 points. Hours to be arranged.*

*V/S*

## **HEA BC 3013x. Women, Health, and Health Care.**

Changing perspectives of women in American society and the consequences of these changes for public policy, health education, and research priorities. Readings from clinical, social science, historical and psychological sources provide a context for study of the evolving relationship between women and the medical sector.—T. Rogers.

*Permission of the instructor required. Enrollment limited to 16 upperclassmen.*

*Offered in 1987-88.*

*4 points.*

*V/S*

# History

Office: 418 Lehman

Telephone: 280-2159

## Professors

Robert A. McCaughey (Chairman), Suzanne F. Wemple

## Associate Professors

Charles S. Olton (Dean of the Faculty), Rosalind N. Rosenberg

## Visiting Associate Professor

James B. Bell

## Assistant Professors

Mark C. Carnes,<sup>1</sup> William C. McNeil,<sup>2</sup> Jeffrey Merrick, Janet A. Riesman<sup>1</sup>

## Visiting Assistant Professor

Herbert Sloan

## Adjunct Instructor

Richard Giordano

Other officers of the University offering courses in History:

## Professors

Roger S. Bagnall, J.M.W. Bean, Stuart Bruchey, Richard Bulliet, Lawrence A. Cremin, Istvan Deak, Ainslie Embree, Eric Foner, John A. Garraty, Nina Garsoian, Henry F. Graff, Leopold H. Haimson, William V. Harris, Graham W. Irwin, Kenneth Jackson, Herbert S. Klein, Hollis R. Lynch, Edward Malefakis, Eric L. McKittrick, Walter Metzger, John H. Mundy, Robert O. Paxton, Marc Raeff, Eugene Rice, William R. Roff, David J. Rothman, James P. Shenton, J.W. Smit, Fritz Stern, Alden T. Vaughan, S. Razl Wastl, Isser Woloch, Marcia Wright, Yosef H. Yerushalmi

## Associate Professors

Carol Gluck, Nancy Leys Stepan

## Assistant Professors

Elizabeth Blackmar, Laurence W. Dickey, Michael Hanagan, Robert Moeller, Rhoads Murphy, Michael Stanislawski, Hava Tirosh-Rothschild, Marc Van De Mieroop, Mark von Hagan, Anne Withington

<sup>1</sup>Absent on leave, 1986-87

<sup>2</sup>Absent on leave, Spring Term

History, which includes the whole of human experience, helps us understand ourselves in the context of our own times and traditions through the study of times and traditions different from our own. It provides perspective on the present through examination of change and continuity in the development of our political, economic, social, religious, and cultural ideas and institutions in preceding centuries. History means not only the narrative record of the past but also the discipline of investigation and interpretation of the past. There is no one way of doing history, but doing history necessarily involves the collection and evaluation of various kinds of evidence from primary sources. The study of history, which encourages habits of critical thinking and careful analysis, should be of interest and use not only to those who intend to pursue advanced degrees in the field, but to all undergraduates intent upon expanding their cultural horizons and enhancing their analytic skills.

Barnard history courses are numbered according to the following scheme of classification:

10xx-level introductory lectures

30xx-level advanced lectures

34xx-level seminars

37xx-level senior research seminars.

Lectures are defined more broadly—chronologically, geographically, and/or thematically—than seminars, which characteristically involve reading and discussion of



# History

primary and secondary sources on more specialized subjects. Students are expected to secure the permission of instructors for admission to seminars.

Students should consult the Columbia College catalogue for full descriptions of Columbia lectures and seminars, and regulations concerning enrollment in these courses. Application forms for Columbia seminars are available in 523 Fayerweather and should be submitted to instructors prior to the registration period.

Students with a score of 5 on the Advanced Placement examination will receive six points credit; students with a score of 4 will receive three points credit.

## REQUIREMENTS FOR THE MAJOR

Students who intend to major in history are urged to consult a member of the department in their sophomore year to plan their academic program.

The history major requires a minimum of eleven courses, eight in the area of concentration and three outside the area of concentration. The two principal areas of concentration are European and American history, although, in consultation with her departmental adviser and with the approval of the department chair, a student may concentrate in other fields of interest where adequate course-coverage exists, such as ancient, medieval, Jewish, Asian, African, cultural, or urban history. The history courses taken to fulfill the major should include:

1. Three courses at the 1000 level (or their equivalent)
2. Two seminars
3. The two-semester senior research seminar (History 3791-92 or History 3793-94) in which students write their senior essays.

Two of the eleven courses may be taken from among the offerings of other departments, provided that such courses are closely related to the field of concentration and are approved by the major adviser.

Certain Columbia graduate ("G") courses are open to qualified majors with the approval of the Barnard chair and the Columbia instructor. These courses are described in the bulletin of the Graduate School of Arts and Sciences.

The senior research seminar represents the culmination of the undergraduate history major. It offers students the opportunity to discuss the nature of history as a discipline and to complete their work in the department through independent investigation of topics of their choice. Students are expected to consult with major advisers concerning tentative topics by the end of the junior year. During the first semester of the senior year, students meet to discuss common readings, while pursuing their own topics. They present reports on their work at sessions to which the American/European members of the department are invited. At the end of the first semester students submit a detailed prospectus, defining the problem under investigation, outlining the research involved, discussing the primary and secondary sources consulted. During the second semester students complete their research and write their essays, of article length (30-50 pages).

## REQUIREMENTS FOR THE MINOR

Five courses are required for a minor in history, four in an area of concentration, and one outside that area. One of the five courses must be a seminar. Arrangements to minor in history should be made with the department chair.

## COURSES OF INSTRUCTION

LECTURES, ANCIENT, MEDIEVAL, JEWISH, AND MODERN EUROPEAN HISTORY

**HIS BC 1003x. The Early Middle Ages: 300 to 1050.**

Fusion of Graeco-Roman, Judeo-Christian and Germanic traditions, and emergence of Europe as a cultural unit. Carolingian and Saxon-Salic empires.—S. Wemple.  
*3 points. Tu Th 10:35-11:50. IV/S*

# History

## **HIS BC 1004y. The High Middle Ages: 1050-1450.**

Social environment, political and religious institutions, and the main intellectual currents of the Latin West studied through primary sources and modern historical writings.—S. Wemple.

*3 points. Tu Th 10:35-11:50. IV/S*

## **HIS BC 1011y. Introduction to European History: Renaissance to French Revolution.**

Introduction to the political, economic, social, religious, and intellectual history of early modern Europe, including the Renaissance, Reformation and Counter Reformation, Absolutism, Scientific Revolution, and Enlightenment.—J. Merrick.

*3 points. M W 11:00-12:15. IV/S*

## **HIS BC 1012x. Introduction to European History: French Revolution to the Present.**

Emergence of revolutionary and counter-revolutionary mass political movements; European industrialization, nationalism and imperialism; twentieth-century world wars, the Great Depression and Fascism.—W. McNeil.

*3 points. M W 11:00-12:15. IV/S*

## **HIS BC 3025x. France, 1515-1789.**

France from the Renaissance to the Revolution with particular attention to royal absolutism, social structure, religious conflicts, and intellectual developments.—J. Merrick.

*3 points. M W 11:00-12:15. IV/S*

## **HIS W 1001y. Ancient History of Egypt and Israel.**

M. Van De Mieroop.

*M W 11:00-12:15.*

## **HIS W 1002x. Ancient History of Mesopotamia and Asia Minor.**

M. Van De Mieroop.

*M W 11:00-12:15.*

## **HIS W 1005x. Greek History, 800-146 B.C.**

R. Billows.

*M W F 11:00-12:15.*

## **HIS W 1006y. The Ancient World: The Roman Period.**

W. Harris.

*Tu Th 4:10-5:25.*

## **HIS W 1150x. Introduction to the History of Europe: To the Renaissance.**

J. Mundy.

*M W 6:10-7:00.*

## **HIS W 1151y. Introduction to the History of Europe: From the Renaissance to the Present.**

J. Mundy.

*M W 6:10-7:00.*

## **HIS W 3288x. England, 500-1450.**

J.M.W. Bean.

*Tu Th 1:10-2:25.*

## **HIS W 3506x. Medieval Jewish History.**

H. Tirosh-Rothschild.

*M W 11:00-12:15.*

## **HIS W 3219y. War, State and Society in Europe, 1500-1815.**

R.M.Andrews.

*M W 1:10-2:25.*

## **HIS W 3204x. The Age of Revolution, 1789-1870.**

I. Woloch.

*M W 11:00-12:15.*

## **HIS W 3205x. European Politics and Society, 1870-1919.**

R. Moeller.

*M W 6:10-7:25.*

## **HIS W 3311x. History of Russia from the Beginning to 1918.**

M. Raeff.

*Tu Th 1:10-2:25.*

## **HIS W 3361y. History of the Soviet Union.**

M.L. von Hagen.

*Hours to be arranged.*

## **HIS W 3518x. History of Jews in Eastern Europe, 1917 to Present.**

M. Stanislawski.

*M W 11:00-12:15.*

## **HIS W 3206y. European Politics and Society Since 1919.**

R.O. Paxton.

*M W 4:10-5:25.*

## **SEMINARS, ANCIENT, MEDIEVAL, AND MODERN EUROPEAN HISTORY**

## **HIS BC 3406x. The History of Women in the Middle Ages.**

Origins of the legal and social position of women in medieval society as reflected in patristic writings, and Roman and Germanic codes. Contributions of women in the high and late Middle Ages to feudal and urban society, courtly love, monasticism, mysticism, medicine, and literature.—S. Wemple.

*Prerequisite: BC 1003 or BC 1004 or the equivalent.*

*Permission of the instructor required.*

*4 points. Tu 2:10-4:00.*

## **HIS BC 3409y. Monasticism in the Middle Ages.**

The emergence of monasticism in the late third century; its survival and spread as



spiritual, economic, educational, and political institution to the fifteenth century.—S. Wemple.  
4 points. *Th 2:10-4:00.*

**HIS BC 3437y. The European Enlightenment.** The origins and evolution of the Enlightenment in the historical context of the eighteenth century, with emphasis on England and France. Readings include Locke, Montesquieu, Voltaire, Diderot, Rousseau, Hume, Kant, Wollstonecraft.—J. Merrick.  
4 points. *M 2:10-4:00.* IV/S

**HIS BC 3791x-BC 3792y. Senior Research Seminar in European History.** Individual research and writing in medieval, early modern, and modern European history. See Requirements for the Major for details.—J. Merrick and S. Wemple.  
4 points. *Tu 4:10-6:00.* IV/S

**HIS W 3917y. The Golden Age of Athens.** R. Billows.  
*Tu 2:10-4:00.*

**HIS W 3579y. Seminar in Greek Historiography.** R. Billows.  
*Th 2:10-4:00.*

**HIS W 3910x. Family and Sexuality in the Graeco-Roman World.** W. Harris.  
*W 6:10-8:00.*

**HIS W 3892x. The Crusades.** J.M.W. Bean.  
*Tu 4:10-6:00.*

**HIS W 3777x. Medieval Social History.** J.H. Mundy.  
*Tu 4:10-6:00.*

**HIS W 3216x. European Intellectual History, 1300-1640.** E. Rice and D. Knox.  
*Hours to be arranged.*

**HIS W 3969x. The Army in European Politics and Society, 1815 to Present.** I. Deak.  
*Tu 4:10-6:00.*

**HIS W 3837y. Revolutions of 1848.** I. Deak.  
*Tu 4:10-6:00.*

**HIS W 3937x. Seminar: Jewish Rights and Political Emancipation.** Y.H. Yerushalmi.  
*Tu Th 10:35-11:50.*

**HIS W 3989x. Hassidism and Haskalah.** M. Stanislawski.  
*W 2:10-4:00.*

**HIS W 3987x. Women in Industrial Society in Europe, from 1750.** R. Moeller.  
*W 2:10-4:00.*

**HIS W 3789y. Case Studies in Women's Collective Action in Modern Europe.** R. Moeller.  
*M 2:10-4:00.*

**HIS W 3993x. Mass Protest and Social Revolution in Modern Europe.** M. Hanaghan.  
*Hours to be arranged.*

**HIS W 3922y. Seminar on the French Revolution.** I. Woloch.  
*M 4:10-6:00.*

**HIS W 3954y. War and Revolution in Europe, 1914-1924: Comparative Studies of Russia, Germany, and Italy.** R. Moeller.  
*W 2:10-4:00.*

**HIS W 3853x. Fascism.** R.O. Paxton.  
*W 4:10-6:00.*

## LECTURES, AMERICAN HISTORY

**HIS BC 1051x. Survey of American Civilization to the Civil War.** The major theological and social concerns of seventeenth-century English colonists; the political and ideological process of defining an American; the social and economic forces that shaped a distinctive national identity; the nature of the regional conflicts that culminated in civil war.—R. McCaughey.  
3 points. *Tu Th 10:35-11:50.* IV/S

**HIS BC 1052y. Survey of American Civilization since the Civil War.** The major intellectual and social accommodations made by Americans to industrialization and urbanization; patterns of political thought from Reconstruction to the New Deal; selected topics on post-World War II developments.—R. Rosenberg.  
3 points. *Tu Th 10:35-11:50.* IV/S

**HIS BC 3052x. The Constitution in Historical Perspective.** The creation of the American Constitution, the issues raised in the 1787 debates, and the way in which these issues came to have lasting significance in American political life. Constitutional thinking in the eighteenth century will be compared and contrasted with that since.—H. Sloan.  
3 points. *Tu Th 2:40-3:55.* IV/S

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## **HIS BC 3067x. America since 1945.**

A consideration of the cold war, containment, and the atomic bomb; McCarthyism; the Civil Rights movement; the Vietnam War; student unrest and the counterculture; the response to the 1960s. Emphasis on relation between domestic and foreign affairs.—B. Tischler.

3 points. Tu Th 10:35-11:50.

IV/S

## **HIS BC 3082x. History of Women in America since 1890.**

Economic transformation and educational expansion; reformers and suffragists; beyond suffrage; women in the professions; the feminine mystique; the new feminism.—R. Rosenberg.

3 points. M W 2:40-3:55.

## **HIS W 1109x. Main Currents in American History, 1492-1877.**

E.L. McKittrick.

Tu Th 5:40-6:30.

## **HIS W 1110y. Main Currents in American History since 1877.**

H. Graff.

Tu Th 5:40-6:30.

## **HIS W 3001x. Afro-American History to 1900.**

E. Foner.

M W 4:10-5:25.

## **HIS W 3364y. The American Radical Tradition.**

E. Foner.

M W 4:10-5:25.

## **HIS W 3121x. America in the Era of Slavery and Jacksonian Democracy.**

J. Shenton.

M W 1:10-2:25.

## **HIS W 3122y. America in the Era of the Civil War and Reconstruction.**

J. Shenton.

M W 1:10-2:25.

## **HIS W 3640x. American Social History, I.**

E. Blackmar.

M W 5:00-6:10.

## **HIS W 3150y. World War II.**

J.P. Shenton.

Tu Th 4:10-5:25.

## **SEMINARS, AMERICAN HISTORY**

### **American Studies-History ASH BC 3401x. Cultural Approaches to the American Past.**

A survey of theories and methods that have helped illuminate the American past and

define American culture; myths and symbols in American history and literature; structuralist and Marxist cultural analyses; studies of ethnicity and cultural pluralism; anthropological, sociological, and psychological methodologies; investigations of popular, mass, folk, and material culture.—J. B. Bell.  
4 points. Th 2:10-4:00. IV/S

### **HIS BC 3455x. Reckoning with the Past: History, Historians, and the Computer.**

A consideration of the impact of quantitative methods upon American historical inquiry. Readings include interpretive accounts of the American past utilizing a variety of such methods. Manipulation of historical data on IBM PC/XT and the use of appropriate software (dBaseII and SPSS/PC) will be an integrated part of the seminar. Fulfills Barnard FR requirement. No computer experience required.—R. Giordano.

Enrollment limited to 15 students. Permission of the instructor required.

4 points. M W 11:00-11:50 plus 2-hour lab

### **HIS BC 3461x. Education in American Society.**

A consideration of the place educational institutions, ideas, and educators have played in American life. Emphasis on the connection between education and social mobility.—B. Tischler.

Enrollment limited to 20 students.

4 points. W 2:10-4:00.

### **HIS BC 3462y. Plantation Societies in 17th and 18th Century British America.**

Comparative analysis of the slave-based, staple-growing plantation colonies in the South and the West Indies that formed the heart of the First British Empire. Race relations, mercantilism, social and political development.—H. Sloan.

4 points. Tu 4:10-6:00.

IV/S

### **HIS BC 3458x. America at War.**

A comparative study of American society during the Spanish-American War, World War I, and the Vietnam War. Emphasis on the roles of the media, intellectuals, anti-war leaders and the soldiers themselves.—H. Sloane.

4 points. W 4:10-6:00.

### **HIS BC 3479y. America in the 1960s.**

The political, social, and technological changes that made the 1960s a period of particular turmoil. The emergence of non-party



# History

politics, the nation at war, the quest for racial justice, the emergence of the new feminism will be examined.—B. Tischler.  
*Enrollment limited to 20 students.*  
*4 points. Th 2:10-4:00.*

**HIS BC 3793x-HIS BC 3794y. Senior Research Seminar in American History.**

Individually guided research in diverse aspects of American history and the presentation of results in seminar and in the form of the senior essay. See Requirements for the Major for details.

*Open to senior majors; others by permission of instructor.*

*x: B. Tischler and staff.*

*y: R. Rosenberg and staff.*

*4 points each semester. Tu 4:10-6:00.*

**HIS W 3832x. Military History and Policy.**

K.T. Jackson.

*W 6:00-8:00.*

**HIS W 3891x. Women in 20th-Century America.**

E. Blackmar.

*Th 4:10-6:00.*

**HIS W 3896x. The Founding Fathers.**

A.F. Withington.

*Tu 2:10-4:00.*

**HIS W 3895y. Jeffersonian America, 1801-1828.**

E.L. McKittrick.

*Tu 9:00-10:50.*

**HIS W 3903x-3904y.**

H. Graff.

*Tu 9:00-10:50.*

**HIS W 3923y. Seminar on the Coming of the Civil War.**

E. Foner.

*Tu 4:10-6:00.*

**HIS W 3932x-3933y. Segregation and Racism: An American Dilemma.**

J.P. Shenton and D. Ben-Atar.

*Tu 2:10-4:00.*

**HIS W 3936y. Seminar on the Origins of American Racism.**

A. Vaughan.

*Th 11:00-12:50.*

**HIS W 3944x. American Legal History.**

S. Bruchey.

*Tu 2:10-4:00.*

**HIS W 3930y. Government and Economy Between the Wars.**

S. Bruchey.

*Tu 2:10-4:00.*

**LECTURES, LATIN AMERICAN AND NON-WESTERN HISTORY**

**HIS W 1410x. Main Currents in Middle Eastern History.**

R.W. Bulliet.

*Hours to be arranged.*

**HIS W 3005y. Main Currents in African History.**

M. Wright.

*M W 2:40-3:55.*

**HIS W 3212x. The Expansion of Europe.**

G. Irwin.

*M W 2:40-3:55.*

**East Asia-History V 3650x. The Family in Chinese History.**

R. Hymes.

*M W 1:10-2:25.*

**SEMINARS, LATIN AMERICAN AND NON-WESTERN HISTORY**

**HME W 3901x. India in the Western Historical Imagination.**

A. Embree.

*W 4:10-6:00*

**HIS W 3948x. History of the Caribbean in the 20th century.**

H. Lynch.

*Tu 4:10-6:00.*

**HIS W 3992x. Seminar in Marriage, Gender and Work in 20th-Century African History.**

M. Wright.

*M 4:10-6:00.*

**HIS BC 3799x, HIS BC 3799y. Independent Study.**

Staff.

*4 points.*

**OTHER OFFERINGS**

Full description of courses offered by Barnard faculty of interest to students of history can be found elsewhere in this catalogue under the department or interdisciplinary program in which the course is offered. For Columbia graduate history lecture courses open to undergraduates ("4000 level") and courses jointly sponsored with other Columbia departments, see the Columbia University Bulletin.

# Studies in the Humanities

Office: 314 and 321 Milbank Hall

Telephone: 280-8312

Studies in the Humanities is coordinated by a Committee from various departments in the Humanities:

**Professor of French**

Serge Gavronsky (Co-chairman)

**Professor of English**

Remington Patterson

**Professor of Italian**

Maristella Lorch

**Professor of Oriental Studies**

Barbara Stoler Miller (Co-chairman)

**Professor of Philosophy**

Mary Mothersill

**Professor of Russian**

Richard G. Gustafson

The offerings in Studies in the Humanities are designed to permit students to broaden their knowledge of humanistic traditions while complementing and enriching the specialization inherent in a major program. Readings in the Humanities courses, as well as Humanities C 1001, C 1002, may be used to fulfill distribution requirements.

Students may neither major nor minor in the Humanities.

## COURSES OF INSTRUCTION

**HUM V 3003x-V 3004y. Readings in European and American Literature and Philosophy of the Nineteenth and Twentieth Centuries.**

Disintegration of traditional canons in ethics and aesthetics and the attempt to reestablish values in a world where their justification has become increasingly individual or relative. Works by Tolstoy, Dostoevsky, Balzac, Kate Chopin, Kleist, Baudelaire, Hegel, Kierkegaard, Nietzsche, and Freud are read in the first semester, and in the second, by James, Mann, Proust, Joyce, Yeats, Eliot, Woolf, Faulkner, Kafka, Sartre, Robbe-Grillet and García Márquez.—Instructors to be announced.

*Prerequisite: A grade of B or better in Humanities C 1001-C 1002 or permission of the instructor.*  
3 points. M W 1:10-2:25. III/H

**HUM BC 3201x. Colloquium in the Humanities: Tragedy and Transcendence: Greek and Sanskrit Drama.**

Analysis of a group of Greek and Sanskrit dramas in terms of comparative themes, mythology, and poetics. Special emphasis on issues of recognition and transformation through the experience of drama. Works of

Sophocles, Euripides, Aeschylus, Menander, Aristotle, Kalidasa, Bhasa, Bhavabhuti, Sudraka, Bhatta Narayana, Bharata, and Dhananjaya.—B. Miller and H. Bacon.  
*Sophomore standing. Not offered in 1986-87.*  
4 points. III/H

**HUM BC 3203y. Colloquium in the Humanities: Emotion and Action: A Comparative Study of Eastern and Western Traditions.**

An analysis of representative Chinese and Western philosophical texts relating to the nature and expression of emotion and the role of feeling in moral conduct and the good life.—M. Mothersill and I. Bloom.  
*Sophomore standing. Not offered in 1986-87.*  
4 points. III/H

**HUM BC 3498y. Seminar: Cultural Confrontations.**

Analysis of selected confrontations between different cultures including those of Greece and the Middle East, Rome and Greece, Christian Europeans and Islamic Arabs, Western Europeans and Meso- and South Americans, Europeans and Africans, India and Western Europe, China and Japan. Special emphasis on patterns of cultural



# Studies in the Humanities

interaction, their social, political and economic bases and ideological ramifications.—H. Hendrix.

*Enrollment by permission of the instructor.*  
4 points. W 4:10-6:00. III/H

The following courses represent a selection of departmental offerings that focus on the complex ways in which humanistic activity involves translations of ideas, emotions, and forms across barriers of time, space, and language.

## **Anthropology ANT V 3044y. Symbolic Anthropology.**

Ordering of experience through symbols in various cultures. Symbolic significance of natural anomalies, twins, the body, space, time, inversions, jokes and riddles, examined through selected readings from Durkheim, van Gennep, Lévi-Strauss, Mary Douglas, Victor Turner, and others.—E. Combs-Schilling.

*Not offered in 1986-87.*  
3 points. V/S

## **French FRE BC 3041x. Twentieth-Century French Thought.**

Definitions of language, revolution, and science in major texts from Surrealism to Structuralism: Breton, Aragon, Sartre. Camus, Barthes and Lévi-Strauss.—S. Gavronsky.

*Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.*  
3 points. Tu Th 10:35-11:50. II/H

## **Italian ITA V 3469y. Renaissance**

**Humanism: Its Sources, Forms and Legacy.** Essential aspects of the humanistic tradition.—M. Piccolomini.

*Prerequisite: One course in either Renaissance history, philosophy, religion, literature or art. Reading knowledge of Latin recommended but not required.*  
3 points. Tu Th 2:40-3:55. III/H

## **Linguistics LIN V 3410y. The Science of Linguistics and the Art of Translation.**

Linguistic patterns and the application of linguistic techniques in both process of translation and the comparison of original and translated version of a text. Texts include literary, Biblical, and journalistic material in bi- or multi-lingual versions, and students

will use materials in languages familiar to them for analysis and translation.—J. Malone.

*Prerequisite: V 1101.*

*Enrollment limited to 25 students. Advance sign-up required.*

*Not offered in 1986-87.*

3 points. V/S

## **Linguistics LIN V 3412y. Linguistics and the Translation of Poetic Language.**

Linguistics as a tool in the translation of poems and other kinds of texts whose structure depends on phonetic and phonological patterns. Recent developments in linguistics (e.g. by Paul Kiparsky) relevant to the analysis of rhyme, meter, parallelism, and other sound-based configurations. Materials include monolingual and bilingual texts (poems, proverbs, etc., in several languages), some chosen by the instructor and others by the students.—J. Malone.

*Prerequisite: V 1101.*

*Enrollment is limited to 25 students. Advance sign-up required.*

*Not offered in 1986-87.*

3 points. V/S

## **ORH V 3399x, ORH V 3400y.**

### **Oriental Humanities Colloquium.**

Major works of Middle Eastern, Indian, Chinese and Japanese origins. V 3399x: Koran, Sufi poetry, Upanishads, Buddhist sutras, *Bhagavad Gita*; V 3400y: *Analects*, *Tao-te Ching*, *Dream of the Red Chamber*, *Tale of Genji*, and Chinese and Japanese poetry.—I. Bloom, B. Miller, and Staff.

*Prerequisite: Two courses from among literature, philosophy, religion and Humanities, or permission of the instructor.*

4 points.

III/H

*Section I W 4:10-6:00.*

*Section II (V 3400y only) Th 2:10-4:00.*

## **Oriental Humanities ORH V 3200x.**

### **Oriental Encounters.**

Oriental classics of India, China, and Japan viewed through the perceptions of Emerson, Thoreau, Whitman, Eliot, Pound, Merton, Kerouac, Ginsberg and Snyder. The *Bhagavad Gita*, the *Dhammapada*, Zen dialogues and other courses relevant to the work of these writers.—B. Miller.

*Not offered in 1986-87.*

3 points.

III/H

# Italian

*Office: 206 Milbank Hall*

*Telephone: 280-5418, 8312*

## **Professor**

Maristella de Panizza Lorch (Chairman)<sup>1</sup>

## **Visiting Assistant Professor**

Manfredi Piccolomini

## **Lecturer**

Furio Colombo

Other officers of the University offering courses in Italian:

## **Professors**

John C. Nelson, Olga Ragusa, Luciano Rebay

## **Assistant Professor**

Jared Becker

## **Lecturer**

Margherita Repetto Alaia

<sup>1</sup>Absent on leave, Autumn Term

Undergraduate instruction in Italian has long been fully and successfully integrated among the various undergraduate schools—Barnard College, Columbia College, and the School of General Studies. All courses are open to Barnard students. For students who have had some Italian, or who have a good knowledge of French or Spanish, but do not feel their background is strong enough for the intermediate course, the comprehensive elementary and intermediate course is recommended as the best way to review what they already know and rapidly proceed beyond it. The course in Italian written and oral style, though part of the requirements for a major in Italian, is open to all qualified students whose main goal is to improve their competence in the language as distinct from its literature.

A major in Italian offers the advantages of closely supervised work for a small number of students. Through the seminar in Italian literature, the major can study in a chosen area under the experienced guidance of a specialist.

The courses given in English have no prerequisites and should be attractive to students majoring in other departments who, nevertheless, wish to study Italian literature.

The Barnard Italian department office is 206 Milbank Hall, and the Columbia department is housed in the Casa Italiana. The Center for International Scholarly Exchange and the Center for Italian Studies sponsor a program of lectures, concerts, poetry recitations, films, and informal gatherings, which will enrich the learning experience of the student and offer opportunities for meeting distinguished Italian and Italian-American visitors to the University. The Paterno Library contains the Italian literature and language collections.

The department offers a summer school in Florence using the facilities of Syracuse University.

Graduate courses are open to qualified students upon consultation with the chairman.

## **Italian Studies**

The program aims to encourage the interest of students in contemporary Europe by focusing on Italy, both for its own sake and as a kind of test-case for the study of a rapidly changing European society. For details of the program, see page 134, under Foreign Area Studies.



## REQUIREMENTS FOR THE MAJOR

The courses in the Department of Italian are designed to develop proficiency in all the language skills and to present the literary and cultural traditions of Italy. The program of study is to be planned as early as possible with the Chairman.

The following courses are required unless advanced standing is attained by the departmental achievement test or by the Advanced Placement examination:

Italian V 1101-V 1102	<i>Elementary Full-Year Course</i>
Italian V 1201-V 1202	<i>Intermediate Course</i>
or	
Italian V 1301-V1302	<i>Comprehensive Elementary and Intermediate Course</i>

Twelve courses are required for the major including:

Italian V 3333-V 3334	<i>Introduction to Italian Literature</i>
Italian V 3335-V 3336	<i>Italian Written and Oral Style</i>
Italian V 3993-V 3994	<i>Seminar in Italian Literature</i>

plus at least 24 more points in Italian courses numbered above Italian V 1302.

Work in another foreign language or in Italian Studies is highly recommended.

## REQUIREMENTS FOR THE MINOR

A minimum of five courses is required for the minor to be selected from courses including and numbered above V 3333-V 3334.

### Language Requirement

The language requirement can be fulfilled with Italian V 1101-V 1102 and V 1201-V 1202 (or their equivalents) or with Italian V 1301-V 1302 followed by a one-year course in Italian literature. Students who have taken courses in Italian elsewhere (whether in high school, in college, or both) but not at Barnard, must take the Italian placement test before registering for any Italian course. The test is given during the pre-registration period.

### Language Laboratory

Each student in Italian V 1101-V1102 has the option to choose a weekly fifty-minute Language Laboratory period at the beginning of the term.

## COURSES OF INSTRUCTION

### ITA V 1101x-ITA V 1102y. Elementary Full-Year Course.

Integral course for beginners with intensive oral-aural drill; reading, translation, conversation. No credit is given for V 1101 until V 1102 has been completed.—B. Luciamo and staff.

*Students must sign up for sections of this course in Room 610 Casa Italiana during the pre-registration period. Work in the language laboratory for one hour is optional.*

4 points.

Sections I, II M Tu W Th 9:00.

Sections III, IV, V M Tu W Th 12:00.

### ITA F 1101x-ITA F 1102y. Elementary Full-Year Course.

Instructor to be announced.

4 points.

Sections I, II Tu Th 6:10-8:00.

### ITA F 1101y-ITA F 1102x. Elementary Full-Year Course.

M. Alaia and associate.

4 points. M W F 1:10-2:25.

### ITA W 1111x, ITA W 1112y. Elementary Conversation.

M. Bellati.

*Prerequisite for W 1112: W 1111 or the equivalent, or sufficient fluency to satisfy the instructor.*

2 points. Tu Th 1:10-2:25.

### ITA V 1201x, ITA V 1202y. Intermediate Course.

Review of the essentials of grammar; intensive and extensive reading, particularly from contemporary authors; translation, composition, and practice in conversation.—M. Alaia and associates.

*Prerequisite: V 1101-V 1102 or the equivalent.*

# Italian

*Students must sign up for sections of this course in Room 610 Casa Italiana during the pre-registration period. Work in the language laboratory for one hour is optional.*

*4 points.*

*Section I M Tu W Th 9:00.*

*Section II, III M Tu W Th 12:00.*

## **ITA F 1201x, ITA F 1202y. Intermediate Course.**

*Instructor to be announced.*

*Prerequisite: F 1101-F 1102 or the equivalent.*

*4 points.*

*M W 6:10-8:00.*

## **ITA W 1221x, ITA W 1222y. Intermediate Conversation.**

*Intensive practice in the spoken language, assigned topics for class discussions, and oral reports.—M. Bellati.*

*Prerequisite: Italian W 1112 or sufficient fluency to satisfy the instructor.*

*2 points. Tu Th 4:10-5:25.*

## **ITA V 1301x, ITA V 1302y. Comprehensive Elementary and Intermediate Course.**

*With permission of the departmental chairman, this course may be applied toward the fulfillment of the language requirement provided it is followed by a one-year course in Italian Literature.—M. Alaia and associate.*

*Students must sign up for sections of this course in Room 610 Casa Italiana during the pre-registration period. Work in the language laboratory for one hour is optional. Recommended for students who have studied other foreign languages and can acquire by intensive study the equivalent of a full year's work in elementary Italian grammar with stress on reading, writing, and conversing.*

*4 points.*

*Section I M Tu W Th 11:00-11:50.*

*Section II M W F 4:10-5:25.*

## **ITA V 3335x, ITA V 3336y. Italian Written and Oral Style.**

*Written and oral self-expression in Italian; brief papers, translations, and oral reports on a variety of topics; grammar review.—Instructor to be announced.*

*Prerequisite: two years of college language or the equivalent.*

*3 points. Tu Th 4:10-5:25.*

## **LITERATURE COURSES IN ITALIAN**

*For nonmajors, the literature courses listed below will count toward the distribution requirement.*

## **ITA V 3333x, ITA V 3334y. Introduction to Italian Literature.**

*Introduction to literary theory and problems and to in-depth textual analysis. Authors and works from the thirteenth century to the present; the basic course in Italian literature.—V 3333: L. Rebay. V 3334: M. Lorch.*

*Prerequisite: V 1201-V 1202 or the equivalent.*

*3 points. M W 2:40-3:55.*

*II/H*

## **ITA V 3449x. Modern Italian Literature.**

*Nineteenth- and twentieth-century prose and poetry.—L. Rebay.*

*Prerequisite: V 1201-V 1202 or the equivalent.*

*Not offered in 1986-87.*

*3 points.*

*II/H*

## **ITA V 3467x. Petrarch and Petrarchism.**

*Not offered in 1986-87.*

*3 points.*

## **ITA V 3468y. Italian Poetry from the Scuola Siciliana to the Dolce Stil Nuovo.**

*Development of Italian poetry from its origins to the early part of the 14th century; Guinizelli, Cavalcanti, and Dante; readings, in-depth textual analysis, and class discussions.—L. Rebay.*

*Prerequisite: V 1201-V 1202 or the equivalent.*

*3 points. M W 1:10-2:25.*

*II/H*

## **ITA V 3641y. The Italian Theatre and Its Contributions to European Theatre.**

*Tragedy, comedy, commedia dell'arte and melodrama.—M. Lorch.*

*Not offered in 1986-87.*

*3 points.*

## **ITA V 3981y. Dante, La Divina Commedia.**

*The Divine Comedy, focusing on textual analysis and the appreciation of Dante's masterwork as poetic text. Readings and lectures in Italian; class discussions and written assignments in either Italian or English.—L. Rebay.*

*Prerequisite: Two years of Italian or the equivalent.*

*Not offered in 1986-87.*

*3 points.*

*II/H*

## **ITA V 3221y. Machiavelli, Castiglione, Ariosto, Tasso.**

*An analysis of Machiavelli's Prince and Mandragola; Castiglione's Book of the Courtier; Ariosto's Orlando Furioso (selections), and Tasso's Aminta and Gerusalemme Liberata (selections).—J. Nelson.*

*Not offered in 1986-87.*

*3 points.*



**ITA V 3993x, ITA V 3994y. Seminar in Italian Literature.**

Guidance in research and writing of a critical essay.—M. Lorch, J. Nelson, O. Ragusa, L. Rebay.

*Required of majors. Open to other qualified students with permission of the chairman.*  
3 points. Hours to be arranged.

**COURSES GIVEN IN ENGLISH**

Majors are required to attend an additional seminar hour conducted in Italian in those courses so indicated below.

**Italian Music ITM V 3116y. Poetry and Music in the Italian Renaissance.**

Focusing upon Petrarch as paradigmatic figure, a study of Renaissance poetry and its musical settings will be made against the background of Renaissance humanism. Included are poets from Dante and Petrarch to Poliziano, Ariosto, Michelangelo, and Tasso; the frottolists Cara and Tromboncino; and madrigal composers such as Verdelot, Willaert, de Rore, Marenzio, Gesualdo, and Monteverdi.—J. Nelson, L. Perkins.

*Prerequisite: First-year Italian or the equivalent and Music Humanities or the equivalent and permission of the instructors.*

*Not offered in 1986-87.*

4 points.

**ITA V 3196x. Petrarch and Boccaccio.**

*Filostrato*, *Fiammetta*, the *Decameron*, and selections from other works by Boccaccio. Origins of humanism and interrelations between Dante, Boccaccio, Petrarch.—J.S. Nelson.

3 points. Tu 2:10-4:00; Th 2:10-3:00 for students with no knowledge of Italian or Th 3:10-4:00 for students with a knowledge of Italian.

**History-Italian HII V 3197x. Dante's World.**

Historical background of Dante's political, social and ethical thought and literary analysis of its poetical rendering; major theological themes in Medieval thought as a background to and influence upon the *Divine Comedy*; development of visual arts and ideas especially in the painting of Giotto.—M. Lorch, S. Wemple.

3 points. *Not offered in 1986-87.*

IV/S

**ITA V 3223y. Florentine Writers from Dante to Michelangelo.**

Interrelations between Dante, Petrarch, and Boccaccio; Lorenzo de Medici and his circle;

Machiavelli and Guicciardini; Michelangelo and Cellini.—J. Nelson.

3 points. Tu 2:10-4:00; Th 2:10-3:00 for students with no knowledge of Italian or Th 3:10-4:00 for students with a knowledge of Italian

**ITA V 3440y. Feminism in Italian Literature and Culture.**

The development of the Feminist Movement in Italy; its origins to the present. Readings will include works by Aleramo, De Cespedes, Maraini and Vigano; historical and sociological background material.—M. Alaia.

*Not offered in 1986-87.*

3 points.

**ITA V 3469y. Renaissance Humanism: Its Sources, Forms and Legacy.**

Essential aspects of the humanistic tradition. Humanistic literature in Europe (1400-1500). Forms of humanistic literature, the humanists' concern with Christianity as religion. Humanism and education, politics and visual arts.—M. Piccolomini.

3 points. Tu Th 2:40-3:55.

III/H

**ITA V 3451x. The Sonnet: a study of poetic structure.**

*Not offered in 1986-87.*

3 points.

**ITA V 3465x. Italian Civilization and Culture.**

Major developments and trends from 1860 to the present.—M. Alaia.

3 points. Tu Th 2:40-3:55.

**Italian Studies ITS BC 3003x. Italian Cultural History 1914-1944: From the Origins to the End of Fascism.**

Seminar. The economic and social conditions of Italy before World War I. Pre-fascist Italian society: the role of the Savoy monarchy; the wide gap between cities and country; in mass movements; the socialists and the catholics. The role of poets and writers as political agitators: from Marinetti to D'Annunzio. Mussolini and the emergence of the middle class. The Fascist "revolution," its establishment, its triumph in the Ethiopian war, its decline with the second world war.—M. Piccolomini.

3 points. W 4:10-6:00. Third hour to be arranged.

# Italian

## **Italian Studies ITS BC 3004x. Italian Cultural History 1944 to Present: The Establishment and Development of Democracy.**

Seminar. The rebirth of an industrial country: character of Italian industrialization. East-West polarization and the role of Italy. The Italian "miracle" of the sixties. Social trouble and terrorism in the seventies. The new mass movements of the eighties: women, youth, and minorities. Italy and the European cultural, economic and political community.—F. Colombo.

*Not offered in 1986-87.*

*3 points.*

## **English-Italian EIT C 3358y. Artistic Theory in the Renaissance.**

Selected texts (in translation) on artistic theory—Alberti, Vasari, Leonardo, among others—and consideration of their importance to the history of art and literary criticism, with attention to the critical terminology used.—K. L. Selig.

*3 points. Tu Th 1:10-2:25.*

## **ITA V 3642y. Studies in Contemporary Italian Arts: Italian Film.**

Historical, social, and stylistic analysis within the context of neo-realism—its antecedents and influence on contemporary cinema. Development of the Italian film industry vis-à-vis politics and society. Films by De Sica, Rossellini, Germi, Castellani, Fellini, as well as historical and contemporary works, will be screened.—J. Becker.

*3 points. Tu Th 4:10-6:00.*

## **GRADUATE COURSES OPEN TO QUALIFIED UNDERGRADUATES**

### **ITA G 4005x, ITA G 4006y. Italian Lyric Poetry.**

Developments and trends from the Duecento to our time; in-depth textual analysis of representative texts.—L. Rebay.

*Prerequisite: Open to qualified undergraduates with the permission of the instructor.*

*3 points. Tu 2:10-4:00.*

### **ITA G 4056x. The Italian Novel.**

A genre study, with special emphasis on cross-influence between Italian and other European literatures.—O.M. Ragusa.

*Prerequisite: Open to qualified undergraduates with the permission of the instructor.*

*3 points. Th 4:10-6:00.*

### **ITA G 4075x. Dante.**

A reading of the *Divine Comedy* in the light of its philosophical and historical background.—J. Nelson.

*Prerequisite: Open to qualified undergraduates with the instructor's permission.*

*3 points. Tu 10:00-11:50.*

### **ITA G 4076y. Dante.**

A reading of the *Divine Comedy* in the light of its philosophical and historical background.—M. Lorch.

*Prerequisite: Open to qualified undergraduates with the instructor's permission.*

*3 points. Tu 10:00-11:50.*





# Linguistics

Office: 329 Milbank Hall

Telephone: 280-5403, 5590

**Professor**

Joseph L. Malone (Chairman)

**Assistant Professor**

Robert May

The study of linguistics develops understanding of the nature of language. The major is designed to provide the student with a broad appreciation of the fundamental problems of language analysis, some training in the techniques of linguistics research, as well as insight into the interrelations of linguistics with the other social and communication sciences, the humanities, and philosophy and mathematics.

**REQUIREMENTS FOR THE MAJOR**

Majors in Linguistics may choose among four major course programs: the general major, Language Sciences, Linguistics and Literature, and Anthropological Linguistics. Each program consists of a minimum of eleven courses, including the following:

Linguistics V 1101	<i>Introduction to Linguistics</i>
Linguistics W 4108	<i>Principles of Historical Linguistics</i>
Linguistics W 4204	<i>Introduction to Phonology</i>
Linguistics W 4500	<i>Generative Syntax</i>
Linguistics V 3901	<i>Seminar in Linguistics</i>

Students are also encouraged to take Philosophy V 3415 *Formal Logic*, as well as appropriate courses in ancient and modern languages.

Students enrolled in the general major program are required to take six further courses.

The Language Sciences, Linguistics and Literature, and Anthropological Linguistics major programs offer courses of study relating the contemporary study of language to other closely related fields in the sciences, social sciences and humanities.

**LANGUAGE SCIENCES**

The study of language in its philosophical, psychological and computational setting. The major consists of a minimum of six of the following courses, of which at least two must be in linguistics:

Linguistics W 4502 (*Generative Phonology*), Linguistics W 4600 (*Transformational Grammar*), Linguistics W 4602 (*Issues in Semantics*), Linguistics W 4702 (*Linguistic Theories as Psychological Theories*), Psychology BC 3160 (*Cognitive Psychology*), Psychology BC 3164 (*Language and Perception*), Psychology W 1501 (*Communication Behavior: The Psychology and Structure of Language*), Psychology W 3180 (*Language and Communication*), Philosophy V 3483 (*Theory of Meaning*), Computer Science W 3261 (*Computability and Formal Languages*), Computer Science W 4705 (*Natural Language Processing*).

Other appropriate courses may be substituted upon permission of the student's adviser.

**LINGUISTICS AND LITERATURE**

The role of linguistics in the analysis of literary language in the widest sense: prized types of language in literate and pre-literate societies (e.g. belles lettres and folklore); translation; versification; registers (e.g. journalese, legal language). The major consists of at least six courses to be selected in consultation with the adviser, drawn from the following categories:\*

- 1. *Linguistics courses*, V 3410, V 3412, V 3414; also Columbia courses subject to availability, e.g. W 4004 (*Linguistics and the Verbal Arts*).

\* A student desiring to limit her courses under category 2 to one language will normally be required to take additional courses under category 3.

# Linguistics

2. *Language and literature courses*, to be chosen in consultation with faculty members of the language and literature departments.

3. *Other courses relevant to the major*, for example, Anthropology V 3404 (*Ethnolinguistics*), Philosophy V 3850 (*Concept of Literature*).

## ANTHROPOLOGICAL LINGUISTICS

The study of language in culture and society. The major consists of at least six courses, to include Anthropology V 3033 (*Sociolinguistics*), Anthropology V 3034 (*Ethnolinguistics*), and four other relevant courses to be selected in consultation with the adviser, e.g. Anthropology V 3020 (*Men's and Women's Speech*), Anthropology V 3044 (*Symbolism*), Linguistics V 3414 (*Linguistics and the Structure of Texts*), Psychology W 1501 (*Communication Behavior: the Psychology and Structure of Language*).

## REQUIREMENTS FOR THE MINOR

Students minoring in Linguistics must take five courses in the department, including V 1101.

## COURSES OF INSTRUCTION

### LIN V 1101x, LIN V 1101y. Introduction to Linguistics.

Nature of language; characteristics of phonological and grammatical systems and the lexicon; evolution of language; role of linguistics in related disciplines; modern techniques of linguistic analysis.—Staff.

*Enrollment limited to ca. 100 students per section.*

*Advance sign-up required.*

3 points.

x: Section I Tu Th 9:10-10:25.

y: Section I Tu Th 10:35-11:50. V/S

### LIN V 3410y. The Science of Linguistics and the Art of Translation.

Linguistic patterns and the application of linguistic techniques in both the process of translation and the comparison of original and translated versions of a text. Texts include literary, Biblical, and journalistic material in bi- or multilingual versions, and students will use materials in languages familiar to them for analysis and translation.—J. Malone.

*Prerequisite: V 1101.*

*Enrollment limited to 25 students. Advance sign-up required. Offered in rotation with V 3412 and 3414.*

*Not offered in 1986-87.*

3 points.

### LIN V 3412y. Linguistics and the Translation of Poetic Language.

Linguistics as a tool in the translation of poems and other kinds of texts whose structure depends on phonetic and phonological patterns. Recent developments in linguistics (e.g. by Paul Kiparsky) relevant to the analysis of rhyme, meter, parallelism, and other sound-based configurations. Materials in-

clude monolingual and bilingual texts (poems, proverbs, etc., in several languages), some chosen by the instructor and others by the students.—J. Malone.

*Prerequisite: V 1101.*

*Enrollment is limited to 25 students. Advance sign-up required. Offered in rotation with V 3410 and V 3414.*

*Not offered in 1986-87.*

3 points.

V/S

### LIN V 3414y. Linguistics and the Structure of Texts.

Application of linguistics techniques for elucidation of meaning and structure in various types of texts, especially poetry and prose. Modern techniques and traditional methods. Texts used for illustration and analysis will be in various languages.—J. Malone.

*Prerequisite: V 1101.*

*Enrollment is limited to 25 students. Advance sign-up required. Offered in rotation with V 3410 and V 3412.*

3 points. Tu Th 9:10-10:25

V/S

### LIN V 3901y. Seminar in Linguistics.

Supervised research in the student's area of specialization, preparation of a research paper.—J. Malone.

*Limited to senior majors.*

3 points. W 9:00-10:50.

### LIN W 4108y. Principles of Historical Linguistics.

Principles of historical and comparative linguistics.—J. Malone.

*Prerequisite: V 1101.*

3 points. Tu Th 10:35-11:50.



# Linguistics

## **LIN W 4204x. Introduction to Phonology.**

Basic concepts and issues in phonological theory; development of the phonemic and morphophonemic levels of representation.—J. Malone.

*Prerequisite:* V 1101.

3 points. Tu Th 10:35-11:50.

## **LIN 4500x. Generative Syntax.**

Principles and analytic techniques of generative syntax; formal and substantive aspects of transformations, base, lexicon, and semantic interpretation.—R. May.

*Prerequisite:* V 1101.

3 points. Hours to be arranged.

## **LIN W 4600y. Transformational Grammar.**

Development of contemporary thought in theoretical linguistics, focusing on syntactic analysis. Topics include the Standard and Extended Theories, Government-binding framework.—R. May.

*Prerequisite:* W 4500 or permission of the instructor.

3 points. Tu Th 2:40-3:55.

## **LIN W 4602x. Issues in Semantics.**

Determination of meaning by properties of grammatical form. Issues to be discussed include relation of syntactic and argument structure, anaphora, scope of quantification.—R. May.

*Prerequisite:* W 4500 or permission of the instructor.

3 points. Tu Th 2:40-3:55.

## **LIN W 4702x. Linguistic Theories as Psychological Theories.**

Foundations and consequences of taking linguistics as a branch of cognitive psychology.

Discussion of the philosophical basis of this perspective, and its effect on research in linguistics and psycholinguistics.—R. May.

*Prerequisite:* W 4602x or W 4600y or permission of the instructor.

Not offered in 1986-87.

3 points.

## **Anthropology ANT V 3033x. Sociolinguistics.**

A. Galin.

3 points. M W 1:10-2:25.

## **Anthropology ANT V 3034y. Ethnolinguistics.**

A. Galin.

3 points. M W 2:40-3:55.

## **Anthropology ANT V 4213x. Methods of Sociolinguistic Analysis.**

A. Galin.

3 points. M 4:10-6:00.

## **Anthropology ANT G 4322x. Synchronic Linguistics.**

H. Pitkin.

3 points. Th 2:10-4:00.

## **Anthropology ANT G 4324y. Diachronic Linguistics.**

H. Pitkin.

3 points. M 2:10-4:00.

## **Anthropology ANT G 4326y. Methods of Ethnolinguistic Analysis.**

A. Galin.

3 points. M 6:10-8:00.

## **Anthropology ANT G 4511y. Ethnographic Text Analysis.**

H. Pitkin.

3 points. Tu 4:10-6:00.



# Mathematics

Office: 404 Mathematics Building

Telephone: 280-2432

## Professor

Joan S. Birman (Chairman)

## Assistant Professors

Paul Hriljac, George Zettler

Other officers of the University offering courses in Mathematics:

## Professors

Hyman Bass, Patrick X. Gallagher, Dorian Goldfeld, Herve M. Jacquet, Troels Jorgensen, Masatake Kuranishi, Boris G. Moishezon, John W. Morgan, Henry Pinkham

## Associate Professors

Robert Friedman, Duong H. Phong

## Assistant Professors

Constantine Callias, Ngaiming Mok, Steven Plotnick

## J.F. Ritt Assistant Professors

David A. Bayer, Steven Cutkowski, Romuald Dabrowski, Isaac Efrat, Sidney Frankel, Craig Hudgson, Thongchai Kengmana, Ian Morrison, Kiernan O'Grady, Thea Pignatoro, Frank Rimlinger,

The Mathematics Department offers a wide range of courses, which fall into four groups: non-credit courses for students who lack a firm grasp of basics in mathematics, service courses for students who need to learn the tools of mathematics for applications to other areas, courses in the majors' program in pure mathematics (including a regular track and an honors track), and courses in the majors' program in applied mathematics.

Students interested in Computing Science should consult the program listing of that department, page 100.

## General Information

The non-credit offering is V 0077, Pre-Calculus.

V 1002, *Introduction to Basic Concepts of Mathematics*. V 1100, *Brief Calculus*. Not offered in 1986-87.

The systematic study of college mathematics begins with one of the following three alternative four-term sequences: Calculus IA, IIA, IIIA, IVA (Mathematics V 1101, V 1102, V 1201, V 1202); Calculus IB, IIB, IIIB, IVB (Mathematics V 1103, V 1104, V 1203, V 1204). Honors Mathematics I, II, III, IV (Mathematics V 1107, V 1108, V 1208). The A-sequence is a standard course in differential and integral calculus, intended primarily for students who need calculus for its applications. The B-sequence covers substantially the same material as A, but places more stress on theoretical foundations and moves at a more rapid pace.

The four-term Honors Mathematics sequence is designed for students with strong mathematical talent and motivation. Included in the course is the material of the calculus sequences, so it does not presume high school calculus. However, it is a much more general introduction to mathematical methods and thought, including topics that are applicable in a wide variety of fields. It will not be repetitious for students who have had high school calculus. Students who perform well in these courses are prepared, after two years, for certain graduate mathematics courses. Classes are typically small and congenial. This is the most attractive and efficacious course available to mathematically talented freshmen, whether or not they intend to be mathematics majors. Students who contemplate taking Honors Mathematics should consult with the instructor. If this is not possible ahead of time, they should register and attend the first class. Transfer to a calculus course, if appropriate, can be easily arranged. Mathematics majors are required to take the B or Honors levels. A fourth sequence on the first year level, IE, IIE, is designed for prospective economics majors.

Mathematics V 1220, *Theory of Equations with Applications*, is a possible alternative to Calculus IV for non-mathematics majors, or supplement to Calculus IV for mathematics majors in the second year of study. It is recommended for students who are interested in computer science.



# Mathematics

Placement in the proper term (I, II, III) and level (A, B, Honors) is guided by the following criteria. Students who have studied calculus in high school and have passed the Advanced Placement Test (AB level) with a grade of 4 or 5 are awarded 3 points credit and may begin with Calculus IIA or IIB, or Honors Math I. Those who have received a grade of 3 will be awarded 3 points credit only if they begin with and pass IIA or IIB, or Honors Math I. Students who have studied calculus in high school and have passed the Advanced Placement Test (BC level) with a grade of 4 or 5 are awarded 6 points credit and may begin with IIIA or IIIB (Section II, for freshmen only), or Honors Math I. Those who have received a grade of 3 will be awarded 6 points credit only if they begin with and pass IIIA, IIIB, or Honors Math I-II and will be awarded 3 points credit if, instead, they begin with and pass IIA or IIB. Students cannot receive both AP credit (3 points) and credit for Calculus IA or IB, or both AP credit (6 points) and credit for Calculus IA, IIA, or IB, IIB.

CEEB-Placement exam policies: Students who receive scores under 550 in the CEEB Mathematics Achievement Test, Level I or II, are required to take the departmental placement exam before they may be admitted to any of the department's offerings. Students who do not pass this examination must take non-credit V 0077 in order to be allowed to register for Calculus. The placement exam is administered during the Autumn and Spring registration periods.

Students who have special placement problems should go to Room 404 Mathematics to arrange an appointment with a faculty member or the Chairman, either during Freshman Week or during the semester.

Two help rooms, one in Mathematics and one in Altschul, will be open all term during the day, Monday through Friday, for students seeking individual help and counseling from the instructors and teaching assistants.

## REQUIREMENTS FOR THE MAJOR

In the second half of the sophomore year or earlier, prospective majors should register with the chairman (604 Mathematics) or with the administrative assistant (410 Mathematics) to be assigned to a departmental adviser. The major programs in both pure and applied mathematics are appropriate for students who plan to continue their training in graduate school.

Forty-two points are required for the major in mathematics, distributed as follows according to two tracks:

### Pure Mathematics

MAT V 1103-MAT V 1104, MAT V 1203-MAT V 1204	<i>Calculus IB, IIB, IIIB, IVB</i>
or	
MAT V 1107-MAT V 1108, MAT V 1207-MAT V 1208	<i>Honors Math I-IV</i>
MAT W 4061-MAT W 4062	<i>Introduction to Modern Analysis</i>
MAT V 3040-MAT V 3041	<i>Introduction to Modern Algebra</i>
MAT V 3951 or MAT V 3952	<i>Undergraduate Seminars in Mathematics</i>

and 15 points in any combination of mathematics and cognate courses, such as physics, chemistry, astronomy, computing science, etc., to be approved by the adviser.

Students who elect to take Honors Math I-IV should see the discussion under "General Information" on page 182.

### Applied Mathematics

MAT V 1103-MAT V 1104 and MAT V 1203-MAT V 1204	<i>Calculus IB-IVB (12 pts)</i>
or	
MAT V 1107-MAT V 1108 and MAT V 1207-MAT V 1208	<i>Honors Math (12 pts)</i>
MAT V 3202	<i>Linear Algebra (3 pts)</i>
MAT W 4061	<i>Modern Analysis (3 pts)</i>
Eng. Math E 4901-E 4902	<i>Junior Seminar (no credit)</i>
Eng. Math E 4903-E 4904	<i>Senior Seminar (6 pts)</i>

# Mathematics

Electives (totaling 18 points) from the following list.

MAT V 3030	<i>Dynamical Systems (3 pts)</i>
MAT V 3027	<i>Ordinary Differential Equations (3 pts)</i>
MAT V 3028	<i>Partial Differential Equations (3 pts)</i>
MAT V 3007	<i>Complex Variables (3 pts)</i>
MAT V 4032	<i>Fourier Analysis (3 pts)</i>
MAT V 4033	<i>Calculus of Variations (3 pts)</i>
Eng. Math E 4300	<i>Numerical Methods (3 pts)</i>
Stat IEOR W 3611-W 3612	<i>Probability and Statistical Inference (6 pts)</i>
Stat IEOR W 3658	<i>Probability (3 pts)</i>
Other (with the approval of the Applied Math Committee)	

*Note:* Students cannot elect both Probability and Probability and Statistical Inference.

## REQUIREMENTS FOR THE MINOR

Six courses are required for the minor, consisting of courses numbered 1200 or above from the departmental offerings, subject to the approval of the chairman.

## COURSES OF INSTRUCTION

### MAT V 0077x, MAT V 0077y. Pre-Calculus.

*Graded on a pass-fail basis.*

*This course does not carry credit toward the bachelor's degree.*

For students who wish to study calculus but do not have a firm enough grasp of high school mathematics. Topics studied: review of algebra, coordinate geometry, trigonometry, exponents, and logarithms, rates of change.—Staff.

*3 points, for tuition charges.*

*Section I M W F 1:10-2:00.*

*Section II M W F 4:10-5:00.*

*Section III Tu Th 6:10-7:25.*

*Section IV M W 7:10-8:25.*

### MAT V 1001x. Introduction to Basic Concepts of Mathematics.

Not open to students who have completed another credit-bearing course in the department. A terminal course for students not intending to continue the study of mathematics. A glimpse into the world of mathematics and its application. Although the material is elementary, it is approached from a thoroughly contemporary scientific point of view.

—Instructor to be announced.

*Prerequisite: High school mathematics through intermediate algebra or the equivalent and the permission of the chairman.*

*3 points. Hours to be arranged.*

### MAT V 1002y. Introduction to Basic Concepts of Mathematics.

*3 points. Not offered in 1986-87. VI*

### MAT V 1007x, MAT V 1007y. Applied Linear Algebra.

Topics, especially suitable for the social sciences, include: linear and quadratic equations, systems of linear equations, matrices, linear programming, the simplex method, difference equations, applications to economics and finance.—Instructor to be announced.

*Prerequisite: High school algebra or V 0070.*

*3 points.*

*x: Tu Th 4:10-5:25. y: Tu Th 2:40-3:55. VI*

### MAT V 1100x. Brief Calculus.

A terminal course that covers in a single term the main ideas of differential and integral calculus, necessarily less extensively than a standard two-term course such as Mathematics V 1101-1102.—Instructor to be announced.

*Prerequisite: High school mathematics through trigonometry or Mathematics V 0077.*

*3 points. M W F 10:00-10:50. VI*

### MAT V 1101x, MAT V 1101y. Calculus IA.

Functions, limits, derivatives; introduction to integrals.—Instructor to be announced.

*Prerequisite: a firm grasp of high school mathematics through trigonometry, or Mathematics V 0077 or the equivalent.*

*3 points.*

*Section I M W F 10:00-10:50.*

*Section II M W F 11:00-11:50.*

*Section III x: M W 1:10-2:25.*

*y: M W 4:10-5:25.*

*Section IV x: Tu Th 6:10-7:25.*

*y: Tu Th 6:10-7:25. VI*

### MAT V 1102x, MAT V 1102y. Calculus IIA.

Methods of integration; applications of the integral; Taylor's Theorem; infinite series.—Instructor to be announced.

*Prerequisite: Course V 1101 or the equivalent.*

*3 points.*

*Section I M W F 10:00-10:50.*

*Section II M W F 11:00-11:50.*

*Section III x: Tu Th 6:10-7:25.*

*y: M W 1:10-2:25.*

*Section IV y: Tu Th 6:10-7:25. VI*

### MAT V 1103x. Calculus IB.

Same topics as Calculus IA, with greater emphasis on underlying theory.—Instructor to be announced.

*3 points.*

*Section I M W F 10:00-10:50.*

*Section II M W F 11:00-11:50. VI*

### MAT V 1104x, MAT V 1104y. Calculus IIB.

Same topics as Calculus IIA, with greater emphasis on underlying theory.—Instructor to be announced.



*Prerequisite: Course V 1103 or the equivalent.*  
3 points.

x: M W F 11:00-11:50.

Section I y: M W F 10:00-10:50.

Section II y: M W F 11:00-11:50. VI

**MAT V 1107x, MAT V 1108y. Honors Mathematics I-II.**

For further information see the discussion under "General Information," page 182.—Instructor to be announced.

3 points M W F 11:00. VI

**MAT V 1111x, MAT V 1112y. Calculus for Economics.**

The level of this course is the same as that of Mathematics V 1101, V 1102, but the syllabus is modified to meet the special needs of economics students. x: Derivatives, transcendental functions, curve-sketching, optimization problems in one variable, integrals; y: Partial derivatives, notions from linear algebra implicit functions, optimization problems in several variables, complex numbers, linear differential and difference equations with constant coefficients.—Instructor to be announced.

*Prerequisite: Same as for V 1101-V 1102.*

3 points.

Section I M W F 10:00-10:50.

Section II M W F 11:00-11:50. VI

**MAT V 1201x, MAT V 1201y. Calculus IIIA.**

Vectors in dimensions 2 and 3; vector valued functions and their derivatives; curves. Functions of several variables; partial derivatives; gradients; surfaces; extrema; double and triple integrals.—Instructors to be announced.

*Prerequisite: Course V 1102 or the equivalent.*

3 points.

Sections I, II, III x: Tu Th 10:35-11:50.

Section I y: M W F 10:00-10:50.

Sections IV, V x: Tu Th 1:10-2:25.

Section II y: Tu Th 6:10-7:25. VI

**MAT V 1202x, MAT V 1202y. Calculus IVA.**

Vectors in higher dimensions; matrices; applications to calculus. Vector analysis. Introduction to Fourier series.—Instructors to be announced.

*Prerequisite: Course V 1201 or the equivalent.*

3 points.

x: Tu Th 6:10-7:25.

Sections I, II, III y: Tu Th 10:35-11:50.

Sections IV, V y: Tu Th 1:10-2:25. VI

**MAT 1203x, MAT V 1203y. Calculus IIIB.**

Same topics as Course V 1201, with greater emphasis on the underlying theory.—Instructors to be announced.

*Prerequisite: For Sections I x or y, Course V 1104.*

*For Section II x (Freshmen only) see statement under "General Information."*

3 points.

Section I x: Tu Th 10:35-11:50.

Section II x: M W F 11:00. (Freshmen only)

Section I y: M W F 11:00. VI

# Mathematics

**MAT V 1204x, MAT V 1204y. Calculus IVB.**

Same topics as Course V 1202, with greater emphasis on underlying theory.—Instructors to be announced.

*Prerequisite: Course V 1203.*

3 points.

Section I x: M W F 11:00-11:50.

Section II y: Tu Th 10:35-11:50.

Section II y: M W F 11:00 (Freshmen only).

VI

**MAT V 1207x, MAT V 1208y.**

**Honors Mathematics III, IV.**

Instructor to be announced.

*Prerequisite: Course V 1107-V 1108. Course V 1207 is the prerequisite for V 1208.*

3 points. Tu Th 10:35-11:50. VI

**MAT V 1220y. Theory of Equations with Applications.**

Topics in abstract algebra extensively used in science and engineering; basic notions of set theory; induction; groups, rings, fields; rings of integers and of polynomials; finite abelian groups; finite rings and fields; elementary combinatorics; difference equations.—Instructor to be announced.

*Prerequisite: One year of calculus.*

3 points. Tu Th 10:35-11:50. VI

**MAT V 2040x. Number Theory.**

Congruences, quadratic residues, Gaussian sums; number-theoretic functions; distribution of primes; algebraic and transcendental numbers.—Instructor to be announced.

*Prerequisite: Calculus II.*

3 points. M W 1:10-2:25. VI

**MAT V 3007x. Complex Variables.**

Elementary course in functions of a complex variable; fundamental properties of the complex numbers; differentiability. Cauchy-Riemann equations; Cauchy integral theorem, Taylor and Laurent series, poles and essential singularities; residue theorem and conformal mapping.—Instructor to be announced.

*Prerequisite: Calculus IV.*

3 points. T Th 2:40-3:55. VI

**MAT V 3010x. Fundamental Concepts of Mathematics.**

*Not offered in 1986-87.*

3 points.

**MAT V 3027x. Ordinary Differential Equations.**

Equations of order one; linear equations series solutions at regular and singular points; boundary value problems; selected applications.—Instructor to be announced.

*Prerequisite: Calculus III or the equivalent.*

3 points. Tu Th 6:10-7:25. VI

**MAT V 3028y. Partial Differential Equations.**

Introduction to partial differential equations; first order equations; linear second-order equations; separation of variables, solution by series expansions; boundary value prob-

# Mathematics

lems.—Instructor to be announced.

*Prerequisite:* Course V 3027 or the equivalent.

3 points. Tu Th 6:10-7:25. VI

## **MAT V 3030y. Dynamical Systems.**

Systems, in particular, linear systems of differential equations; qualitative study of the solutions. Applications to population biology, economics, physics, and chemistry, as selected by the instructor.—Instructor to be announced.

*Prerequisite:* Mathematics V 3202 or the equivalent.

3 points. Tu Th 9:10-10:25. VI

## **MAT W 4032x. Fourier Analysis.**

Fourier series and integrals, discrete analogues, inversion and Poisson summation formulae, convolution, Heisenberg uncertainty principle. The course will stress the application of Fourier Analysis to a wide range of disciplines.—Instructor to be announced.

*Prerequisite:* Three terms of calculus and linear algebra or four terms of calculus.

3 points. Tu Th 2:40-3:55. VI

## **MAT W 4033y. Calculus of Variations.**

Euler-Lagrange equations, symmetry and conservation laws, Noether's theorem, Legendre transform. Other topics chosen by the instructor. The course will stress the application of calculus of variations to a wide range of disciplines. —Instructor to be announced.

*Prerequisite:* Three terms of calculus and linear algebra or four terms of calculus.

3 points. Tu Th 2:40-3:55.

## **MAT V 3040x, MAT V 3041y. Introduction to Modern Algebra.**

The second term of this course may not be taken without the first. Groups, homomorphisms, ring ideals, fields, polynomials, and field extensions. Galois theory.—Instructor to be announced.

*Prerequisite:* Calculus IV.

3 points. M W 2:40-3:55. VI

## **MAT W 4061x, MAT W 4062y. Introduction to Modern Analysis.**

The second term of this course may not be taken without the first. Real numbers, metric spaces, elements of general topology. Continuous and differentiable functions. Implicit functions. Integration; change of variables. Function spaces. Further topics chosen by the instructor.—Instructor to be announced.

*Prerequisite:* Calculus IV or the equivalent.

3 points. M W 4:10-5:25. VI

## **MAT V 3202x, MAT V 3202y. Linear Algebra.**

Vector spaces, linear transformations, matrices, quadratic and hermitian forms, reduction to canonical forms.—Instructor to be announced.

*Prerequisite:* Calculus III or the equivalent.

3 points.

x: M W F 9:00-9:50.

y: Tu Th 9:10-10:25.

VI

## **MAT V 3375y. Geometric Topology.**

The fundamental group of a topological space; Seifert-Van Kampen theorem, covering spaces, classification of 2-manifolds, simplicial homology.—Instructor to be announced.

*Prerequisites:* Courses V3040 and W4061 or their equivalents. This course is intended primarily for mathematics majors.

3 points. Tu Th 2:40-3:55. VI

## **MAT V 3386x. Differential Geometry.**

Local and global differential geometry of submanifolds of Euclidean 3-space; Frenet formulas for curves; various types of curvatures for curves and surfaces and their relations; Gauss-Bonnet theorem.—Instructor to be announced.

*Prerequisite:* Calculus IV or the equivalent.

Primarily for majors in Mathematics.

3 points. M W 1:10-2:25. VI

## **MAT V 3901x, MAT V 3902y. Supervised Readings in Mathematics.**

Guided reading and study in mathematics. A student who wishes to undertake individual study under this program must present a specific project to a member of the staff and secure his or her willingness to act as sponsor. Sponsorship is limited to full-time instructors on the staff list. Written reports and periodic conferences will be required.—Staff.

*Permission of the chairman and of the staff member who agrees to act as sponsor are required.*

3 points. Hours to be arranged.

## **MAT V 3951x, MAT V 3952y.**

### **Undergraduate Seminars in Mathematics.**

Subject matter announced at the start of registration and is different in each section. Each student prepares talks, to be given to the seminar, under the supervision of a faculty member or senior teaching fellow.—Instructor to be announced.

*Prerequisite:* Two years of calculus and at least one year of additional mathematics courses, and the permission of the department chairman.

3 points.

Consult 4th floor bulletin board, Mathematics Building, for organizational meeting date and time, during registration period.

## **GRADUATE COURSES**

Certain graduate courses given in the University are open to qualified majors with the consent of the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



# Medieval and Renaissance Studies

*Office: 206 Milbank Hall*

*Telephone: 280-5418, 5417*

This program is supervised by the Committee on Medieval and Renaissance Studies:

**Associate Professor of Classics**  
Lydia Lenaghan

**Assistant Professor of Classics**  
Daniel Selden

**Professor of Italian**  
Maristella Lorch (Chairman)

**Professors of English**  
Ruth Kivette, Anne Prescott

**Assistant Professor of English**  
Christopher Baswell

**Professor of French**  
Tatiana Greene

**Professor of History**  
Suzanne Wemple (Adviser)

**Professor of Music**  
Hubert Doris

**Associate Professor of Spanish**  
Marcia Welles

**Assistant Professor of Spanish**  
Helene de Aguilar

**Associate Professor of Art History**  
Jane Rosenthal

**Lecturer in German**  
Regina Ayre

This program enables undergraduates to acquire a thorough knowledge of the most important aspects of the Medieval and Renaissance civilizations, and to gain an awareness of the interdependence of historical and cultural developments.

## REQUIREMENTS FOR THE MAJOR

Major programs are established individually with a concentration in one of the disciplines: art history, history, one of the literatures, philosophy, romance philology, music, or religion. A sequence of five course to be taken in the field of concentration has been developed by the relevant department.

A minimum of twelve courses is required for the major in Medieval and Renaissance Studies, distributed as follows:

- 5 courses in the area of concentration;
- 2 history courses;
- 3 Medieval and Renaissance Studies courses;
- 2 electives to be chosen in consultation with the adviser.

Students are required to write a senior essay, either in a Medieval and Renaissance Studies course or in a senior level seminar in the discipline of their concentration.

# Medieval and Renaissance Studies

## Language Requirements

**Medieval Studies.** A reading knowledge of one Romance or Germanic language is required. In special cases students may petition for another language. Students are expected to acquire a reading knowledge of Medieval Latin before graduation. (See Latin BC 3033, *Medieval Literature*.)

**Renaissance Studies.** A reading knowledge of two languages, preferably Latin and Italian, must be acquired before graduation.

Mimeographed lists of concentration courses are available from the Program Adviser, 413 Lehman Hall.

## REQUIREMENTS FOR THE MINOR

There is no minor in Medieval and Renaissance Studies.

## COURSES OF INSTRUCTION

### **History-Italian HII V 3197x. Dante's World.**

Historical background of Dante's political, social, and ethical thought, and literary analysis of its poetical rendering.—M. Lorch and S. Wemple.

3 points. Not offered in 1986-87. IV/S

### **English ENG BC 3197x. Myth and History at the Court of Elizabeth I.**

A. Prescott.

4 points. Not offered in 1986-87. I/H

### **MRS BC 3080x. The Court of Charlemagne and Este: Myth and History.**

Exploration through history and fiction of the origins and dimensions of the court of Paris and of Este in Ferrara and the birth and development of Renaissance theatre, chivalric and epic poetry.—M. Lorch and S. Wemple.

4 points. III/H

### **Italian-Music ITM V 3034y. Italian Renaissance: Courts and the Theatre.**

Relation of the textual to the dramatic, musical, choreographic, and visual elements, and the social nature of the encounter between the public and the actors and performers.—H. Doris and M. Lorch.

Not offered in 1986-87.

3 points.

### **MRS BC 3082y. Iconography and Allegory.**

Central forms and procedures of Medieval and Renaissance iconography and allegory; movement of signs, symbols and narratives from religion and philosophy into literature.—E. Cousins and B. Ulanov.

3 points. Not offered in 1986-87. III/H

### **MRS BC 3086x. Women in the Middle Ages: Ideals and Reality.**

Position of women in the medieval social structure and as reflected in the image of women in literature and art. Women's contributions to art and literature and some common medieval stereotypes examined on the basis of primary evidence, letters,

manuals, documents, literary texts, and works of art.—J. Rosenthal and S. Wemple. Not offered in 1986-87.

4 points.

III/H

### **MRS BC 3090y. Senior Seminar.**

Texts central to the continuity and reappraisal of medieval and Renaissance traditions. Readings linked to the student's experience in various fields provide a context for the preparation of a senior thesis.—Members of the Committee.

4 points. Hours to be arranged.

### **Italian ITA V 3469y. Renaissance Humanism: Its Sources, Forms and Legacy. Advanced Seminar.**

Humanistic literature in Europe (1400-1500); forms of humanistic literature, the humanist concern with Christianity as religion; humanism and education, politics and the visual arts.—M. Piccolomini.

3 points. Tu Th 2:40-3:55.

III/H

## OTHER MEDIEVAL AND RENAISSANCE STUDIES COURSES

### **Art History ARH BC 3351x. Early Christian and Early Medieval Art.**

The origins of Christian art and architecture before Constantine and the subsequent development of architecture, sculpture, and painting under the patronage of church and state in Western Europe from the 4th through the 11th century.—J. Rosenthal.

3 points. M W 2:40-3:55.

I/H

### **Art History ARH BC 3352y. Art of the Later Middle Ages.**

Architecture, sculpture, and painting in the Romanesque and Gothic periods, with emphasis on the French contributions.—S. Murray.

3 points. M W 2:40-3:55.

I/H



# Medieval and Renaissance Studies

## **Art History ARH W 3400x. Italian Renaissance Painting.**

The work of the major masters who flourished in the 15th and early 16th centuries with special emphasis given to Masaccio, Piero della Francesca, Leonardo Da Vinci, Giovanni Bellini, Giorgione, Titian, and Michelangelo.—J. Beck.

*Not offered in 1986-87.*

*I/H*

*3 points.*

## **Art History ARH V 3420y. Italian Sculpture During the Renaissance.**

Survey of developments from the 13th to the 16th century with special emphasis given to the art of Nicola Pisano, Giovanni Pisano, Quercia, Donatello, and Michelangelo.—J. Beck.

*3 points. Tu Th 6:10-7:25.*

*I/H*

## **Art History ARH V 3437y. Italian Painting of the Sixteenth Century.**

The styles and significance of painting in Italy, with discussion of the concepts of High Renaissance and Mannerism. Emphasis on major figures.—D. Rosand.

*Not offered in 1986-87.*

*3 points.*

*I/H*

## **Art History ARH BC 3661x. European Architecture from the Renaissance to 1700.**

Development of Renaissance and Baroque architecture in Italy, France, Germany, and England. Architects studied include Brunelleschi, Bramante, Michelangelo, Delorme, Cortona, Borromini, François Mansart, Hardouin-Mansart, Inigo Jones, and Wren.—D. Nyberg.

*3 points. Tu Th 2:40-3:55.*

*I/H*

## **Art History ARH BC 3953y. The Art of Medieval Manuscript Illumination.**

Principal forms of decoration and illustration in medieval manuscripts, including examination of original works in collections in New York City.—J. Rosenthal.

*4 points. Hours to be arranged.*

*I/H*

## **Classics CMR BC 3181x. Autobiography: Augustine to Rousseau.**

The theory and practice of autobiography as it develops out of the classical tradition from Late Antiquity through the Early Modern period. Augustine, *Confessions*; Dante, *Vita Nuova*; Petrarch, *Familiars*; Montaigne, *Essays*; Rousseau, *Confessions*.—D. Selden.

*3 points. Hours to be arranged.*

## **Latin LAT BC 3033y. Medieval Literature.**

Survey of representative late Latin and medieval texts; readings from the Vulgate, the Church Fathers, sacred and secular lyric, history, romance, satire, and biography; practice in paleography.—J. Magee.

*Prerequisite: Three semesters of college Latin or permission of the instructor.*

*3 points. Tu Th 1:10-2:25.*

## **English ENG BC 3129x. History of the Theatre: Origins to the Restoration.**

Theatre history beginning with theories of origin and tracing theatre literature and practice through the Greek and Roman periods, the Middle Ages, and the Renaissance, to the Restoration in England and 17th century in France, with some attention to third world forms.—L. Castaños.

*3 points. Tu Th 2:40-3:55.*

## **English ENG BC 3154x. The Early Chaucer.**

*Book of the Duchess, Hous of Fame, Legend of Good Women, and Parlement of Foules*, with emphasis on *Troilus and Criseyde*; related texts by other writers.—C. Baswell.

*3 points. Not offered in 1986-87.*

## **English ENG BC 3155x. Chaucer.**

*The Canterbury Tales*.—C. Baswell.

*3 points. Tu Th 10:35-11:50.*

*Note: Columbia course W3034y. Chaucer II. Canterbury Tales.—Instructor to be announced. Hours to be arranged.*

## **English ENG BC 3158y. Medieval Literature.**

English and Continental literary works from the fourth to the fifteenth century, studied in the original or in translation.—B. Ulanov.

*Alternate years. Offered in 1987-88.*

*3 points.*

*I/H*

## **English ENG BC 3163x, ENG BC 3164y. Shakespeare.**

A critical and historical introduction to the comedies, histories, and tragedies of Shakespeare.—R. Patterson.

*3 points. M W F 11:00.*

*I/H*

## **English ENG BC 3165x. The Elizabethan Renaissance.**

Continuities, recoveries, and innovations from Skelton and More to Sidney and Spenser. Humanism, the Reformation, Neoplatonism, courtly and popular wit.—A. Prescott.

*3 points. M W 1:10-2:25.*

*I/H*

# Medieval and Renaissance Studies

## English ENG BC 3166y. Seventeenth-Century Prose and Poetry.

Classical traditions, Christian beliefs, the new science and the literary imagination: thought and style in English literature from Bacon, Donne, and Jonson to Marvell, Bunyan, and Dryden.—R. Kivette.

*Not offered in 1986-87.*

3 points.

## English ENG BC 3167y. Milton.

Close reading and critical study of *Paradise Lost*, *Paradise Regained* and *Samson Agonistes*, with some attention to minor poems and prose.—R. Kivette.

3 points. Tu Th 9:10-10:25.

II/H

## English ENG BC 3169y. English Drama: 900-1642.

English drama from its beginnings to the closings of the theatres. Medieval plays, the Tudor interlude, and major plays of the English Renaissance (excluding Shakespeare), with emphasis on Marlowe, Jonson and Webster.—R. Patterson.

3 points. M W 4:10-5:25.

II/H

## English ENG BC 3997x. IX: Epic and Romance.

Epic and romance, from the classical period to the twentieth century, and study of their competition and mutual influence. Readings from Greek romance, Latin epic, Chaucer, Malory, Spenser, Milton, the novel, science fiction.—C. Baswell.

4 points. W 4:10-6:00.

## English ENG BC 3998y.

### I. The Middle Ages.

—C. Baswell.

M 2:10-4:00.

### II. The Renaissance.

—R. Patterson.

Tu 2:10-4:00.

## French FRE BC 3031x. The Middle Ages.

Analysis of love in some of the major literary and theoretical texts of the period together with twentieth century interpretations found in surrealism, contemporary criticism and films. Readings will include the Tristan poems, works of the troubadours, Trobairitz, Chrétien de Troyes, the Mélusine legend as well as prose and poetry by Breton, Aragon and Mansour; criticism by Kristeva and Zumthor and films by Carné, Rohmer, and Malle.—S. Gavronsky.

*Prerequisite: BC 3021, BC 3022, BC 3023, BC*

*3024, or permission of the instructor.*

*Not offered in 1986-87.*

3 points.

II/H

## French FRE BC 3032x. Renaissance and Classical Prose.

Fictional and non-fictional prose of the sixteenth and seventeenth centuries: Rabelais, Montaigne, Descartes, Pascal, La Rochefoucauld, Madame de Sévigné, Madame de La Fayette, Bossuet, La Bruyère.—T. Greene.

*Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the permission of the instructor.*

*Enrollment limited to 20 students.*

3 points. Tu Th 1:10-2:25.

II/H

## French FRE BC 3033x. Renaissance, Baroque, and Classical Poetry.

Form, content, and aesthetics of poets from Marot to La Fontaine, including Marguerite de Navarre, Louis Labé, Maurice Scève, du Bellay, Ronsard, d'Aubigné, Sponde, other Baroque poets, Boileau, and Racine.—Instructor to be announced.

*Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the permission of the instructor.*

*Enrollment limited to 20 students.*

*Not offered in 1986-87.*

3 points.

II/H

## German GER BC 3045y. Literary Traditions in the Time of the Medieval Empire.

Introduction to the feudal age and to German literature from about 1200 to about 1400; *Parzival*, *Tristan* and *Das Nibelungenlied*. Texts used for reading are in modern German.—R. Ayre.

*Prerequisite: BC 1204 or the equivalent.*

*Not offered in 1986-87.*

3 points. M W F 11:00

II/H

## History HIS BC 1003x. The Early Middle Ages: 300-1050.

Fusion of Graeco-Roman, Judeo-Christian, and Germanic traditions, and emergence of Europe as a cultural unit. Carolingian and Ottonian empires.—S. Wemple.

3 points. Tu Th 10:35-11:50.

IV/S

## History HIS BC 1004y. The High Middle Ages: 1050-1450.

Social environment, political and religious institutions, and the main intellectual currents of the Latin West studied through primary sources and modern historical writings.—S. Wemple.

3 points. Tu Th 10:35-11:50.

IV/S



# Medieval and Renaissance Studies

**History HIS BC 1011y. Introduction to European History: Renaissance to the French Revolution.**

Survey of early modern European history, including the Renaissance, Reformation and Counter Reformation, religious conflicts, and intellectual developments.—J. Merrick.  
3 points. *M W 11:00-12:15.* IV/S

**History HIS W 1151y. Introduction to the History of Europe: From the Renaissance to the Present Day.**

J. Mundy.  
3 points. *M W 6:10-7:00.*

**History HIS W 3225y. The Italian Renaissance.**

E.F. Rice.  
*Not offered in 1986-87.*  
3 points. IV/S

**History HIS W 3777y. Medieval Social History.**

J. H. Mundy.  
3 points. *Th 4:10-6:00.* IV/S

**History HIS G 4453x. Byzantine History.**

N.G. Garsoian.  
*Permission of the instructor required.*  
*Not offered in 1986-87.*  
4 points. IV/S

**Italian ITA V 3196x. Petrarch and Boccaccio.**

*Filostrato*, *Fiammetta*, the *Decameron* and selections from other works by Boccaccio. Origins of humanism and interrelations between Dante, Boccaccio and Petrarch.—J.S. Nelson.  
3 points. *Tu 2:10-4:00; Th 2:10-3:00 for students with no knowledge of Italian or Th 3:10-4:00 for students with a knowledge of Italian.*

**Religion REL V 3406y. Medieval Ecclesiastical History: 900-1400.**

Institutional, doctrinal, and social development of Latin Christianity from the post-Carolingian age to the conciliar struggles of the 15th century.—R. Somerville.  
*Not offered in 1986-87.*  
3 points. III/H

**Religion REL V 3409x. Luther and the Radical Reformation: Piety and Politics.**

*Not offered in 1986-87.*  
3 points. IV/S

**Spanish SPA BC 3017x. Spanish Literature in the Middle Ages and the Early Renaissance.**

Lectures and discussions in Spanish on Spanish literature from its origins to the beginnings of the sixteenth century. —M. Servodidio.  
3 points. *M W F 11:00.* II/H

**Spanish SPA BC 3018y. Literature of the Golden Age.**

Poetry, theater, and narrative of the Golden Age: Garcilaso, the mystic poets, Cervantes, Lope de Vega, and Calderón.—M. Welles.  
3 points. *M W F 11:00.*

For other Columbia courses and Graduate courses, please consult the proper catalogues and see either Professor Lorch or Professor Wemple.



# Music

Office: 409 Milbank Hall

Telephone: 280-3825, 5096

## Professors

Patricia Carpenter, Hubert Doris (Chairman)

## Assistant Professor

Severine Neff<sup>1</sup>

## Instructor

Peter Schubert

## Assistant

David Pannett

Other officers of the University offering courses listed below:

## Professors

Joel Newman, Howard Shanet, Edward Lippman

## Associate Professors

Jacques-Louis Monod, Richard Taruskin<sup>1</sup>

## Assistant Professors

Susan Blaustein, Walter Frish, Michael Long, Katherine Rohrer, Elaine Sisman

## Lecturers

Christopher Hatch, Arthur Kreiger

## Associates

Niels Østbye, Michael Skelly

<sup>1</sup>Absent on leave, 1986-87.

The offerings of the department are designed to encourage the study of music as an art and a craft within the framework of the liberal arts. The courses in the Theory sequence are intended to develop an understanding of the way Western music has developed from the Renaissance to the present. These courses prepare the student practically and analytically for the courses in the History sequence. The History sequence covers the period from the Middle Ages to the mid-twentieth century, emphasizing not only the purely historical development of music, but also its place as an art in society.

The department provides practice rooms at a nominal charge. Preference in assigning hours is given in order of application to music majors and those enrolled in courses given by the department. Application for practice time should be made at the Office of Buildings and Grounds, Milbank Hall, during registration and the first week of classes by music majors, and by all others during the week following.

Books, scores, and records are available at the Barnard College Library. The Columbia University Music Library contains an extensive collection of music materials for reference, research and circulation. In addition, phonographs with a large collection of recordings are also available for use by students registered in music courses other than Music BC 1001, BC 1002, *An Introduction to Music*.

Students contemplating a career in performance or composition should also consult the announcement for the Program in the Arts, page 77.

## REQUIREMENTS FOR THE MAJOR

The music major is a demanding one, but it is hoped that the student will find time to follow special courses of particular interest from among those presented in the Literature and History section of the departmental offering.



A total of 14 courses is required for the major:

V 2100-V2101, V 2300-V 2301, V 2303, V 2305	<i>Theory I, II, III, IV, V and VI</i>
V 3123, V 3124, V 3125, V 3126 V 3179-V3180	<i>History I, II, III, and IV</i> <i>Seminar: Historical and Analytical Studies in the Literature of Music</i>
V 3373	<i>Orchestration, Conducting, and Score Reading</i>

A student intending to major in music should start with V 2100 and V 3123 as early as possible. BC 1001-BC 1002, though prerequisite for more advanced literature courses, is not required of music majors, since it covers the same kind of materials in greater depth in the courses already required of them. Applied music (a maximum of two courses) may be counted toward the degree, but is not required.

Students planning to do graduate work in theory or ethnomusicology must know at least two foreign languages, including German and French. Those planning graduate work in historical musicology must know Latin, and German or French. Courses in art history, history, philosophy, literature, and foreign languages are recommended for their relationship with musical studies, and should be elected after consultation with the department.

Students are advised to consult the Bulletin of the Graduate School of Arts and Sciences for those courses open to seniors and others with advanced training.

**Piano requirement:** the student must present herself for an audition with a member of the piano faculty immediately upon acceptance as a music major, and by appointment during the exam period of each term thereafter, until she has reached an appropriate level of proficiency at the keyboard, such proficiency to be certified by a member of the piano faculty no later than the end of the first term of the senior year. It is the student's obligation to make an appointment for these auditions prior to each exam period.

Majors must have participated for two years in the chorus, orchestra, choir, concert band, collegium musicum, chamber music, or other musical ensembles by the time they are graduated. A senior major is required to prepare a research paper, project or a recital with essay to be planned in consultation with her adviser no later than the beginning of the senior year.

**REQUIREMENTS FOR THE MINOR**

A minimum of six courses is required for the minor, four terms in the Theory sequence and two terms in the History sequence.

**COURSES OF INSTRUCTION**

**LITERATURE AND HISTORY**

**MUS BC 1001x, MUS BC 1002y. An Introduction to Music.**  
Elements of musical structure designed to form intelligent listening habits, and of the several great epochs of music, with emphasis on their style and structure.—Staff.  
*No previous knowledge of music is required. This course is not designed for students majoring in music.*  
3 points. M W 1:10-2:25. I/H

**MUS V 1003y. Literature of the Solo Song.**  
A survey of solo vocal literature of the eighteenth to the twentieth century.—H. Doris.  
*Prerequisite: Music F 1001 or Humanities C 1123 or the equivalent.*  
3 points. Tu Th 1:10-3:00.  
One hour is a listening hour. I/H

# Music

## **MUS V 1005x. The Opera.**

Survey of the development of opera from Monteverdi to the present.—K. Rohrer.

*Prerequisite:* BC 1001-BC 1002 or the equivalent.  
3 points. Tu Th 1:10-3:00.

One hour is a listening hour. I/H

## **MUS V 1006y. The Symphony.**

Survey of symphonic style and structure from 1750 to the present.—E. Sisman.

*Prerequisite:* BC 1001-BC 1002 or the equivalent.  
3 points. M W 3:10-5:00.

One hour is a listening hour. I/H

## **MUS V 1015x. American Music.**

A survey of music in America from colonial times through the 1950s. Attention to the relationships between folk, "entertainment," and art music.—J. Newman.

*Prerequisite:* Music F 1001 or Humanities C 1123, or the equivalent.

3 points. Tu Th 3:10-5:00.

One hour is a listening hour.

## **MUS V 1023y. Liszt and Wagner.**

The music of Liszt and Wagner. Study of selected works.—E.A. Lippman.

*Prerequisite:* Music F 1001 or Humanities C 1123, or the equivalent.

3 points. Tu Th 3:10-5:00.

One hour is a listening hour.

## **MUS V 1617x. Electronic Music: Its Evolution and Techniques.**

Survey of electronic music from 1948 to the present: analysis of compositional techniques and their evolution and applications by various groups and individual composers. Technical procedures employed in creating sound materials.—Instructor to be announced.

*Prerequisite:* Course V 2101 or the equivalent, and written permission of the instructor.

3 points. M 3:10-5:00. I/H

## **MUS V 3123x. History I.**

Western music to the early sixteenth century. M. Long

*Prerequisite or corequisite:* Course V 2100 or the equivalent.

3 points. Tu Th 3:10-5:00.

One hour is a listening hour. I/H

## **MUS V 3124y. History II.**

Western music from the early sixteenth century to the end of the seventeenth century.—K. Rohrer.

*Prerequisite:* Course V 3123 or permission of the instructor.

3 points. Tu Th 3:10-5:00.

One hour is a listening hour. I/H

## **MUS V 3125x. History III.**

Western music from the end of the seventeenth century to the early nineteenth century.—E. Sisman.

*Prerequisite:* Course V 3124 or permission of the instructor.

3 points. Tu Th 3:10-5:00.

One hour is a listening hour. I/H

## **MUS V 3126y. History IV.**

Western music from the early nineteenth century to the mid-twentieth century.—W. Frisch.

*Prerequisite:* Course V 3125 or permission of the instructor.

3 points. Tu Th 3:10-5:00.

One hour is a listening hour. I/H

## **MUS V 3179x. Seminar. Historical and Analytical Studies in the Literature of Music.**

Required seminar for senior majors to supplement and coordinate previous studies.—J. Newman.

*Prerequisite:* Three years of the theory sequence, two years of the history sequence, and Courses V 3373-V 3374, or written permission of the instructor.

3 points. W 1:10-3:00. I/H

## **THEORY**

### **MUS V 1329x, MUS V 1329y. Musicianship.**

Basic elements of music studied with the aim of developing musicianship.—Staff.

*Prerequisite:* Placement examinations will be given at the first class meeting, 501 Milbank.

3 points. Sections I, II, III M W 4:10-5:25.

All students taking the Music Theory sequence (V 2100 through V 2305) must take a placement examination in ear-training, and must satisfy the ear-training requirement either through the placement examination or the completion of the ear-training sequence V 2000 through V 2003.

### **MUS V 2000x, MUS V 2000y. Ear-training. Level I.**

Intervals, rhythms, and melodic lines, for dictation and sight-singing.

*Prerequisite:* Placement examinations will be given at the first class meeting, 501 Milbank.

2 points.

Section I M W F 9:00-9:50.—P. Schubert.

Section II M W F 9:00-9:50.—Instructor to be announced.

### **MUS V 2001x, MUS V 2001y. Ear-training. Level II.**

Three- and four-tone chords and simple



passages, for dictation and sight-singing.—Staff.

*Prerequisite:* Course V 2000 or the equivalent.  
2 points.

*Sections I, II M W F 9:00-9:50.*

## **MUS V 2002x, MUS V 2002y. Ear-training. Level III.**

Cadences and chord progressions, for dictation and sight-singing.—Staff.

*Prerequisite:* Course V 2001 or the equivalent.  
1 point. *Tu Th 9:00-9:50.*

## **MUS V 2003x, MUS V 2003y. Ear-training. Level IV.**

Modulations and extended musical passages, for dictation and sight-singing.—Staff.

*Prerequisite:* Course V 2002 or the equivalent.  
1 point. *Tu Th 9:00-9:50.*

## **MUS V 2100x-MUS V 2101y. Theory I and II.**

Autumn Term: modal counterpoint in two parts; all species (five), invertible counterpoint at the octave and twelfth, and canon. Spring Term: Diatonic harmony in four parts; triads and transformations (inversions and diatonic seventh chords); techniques of prolongation, embellishment, tonicization, and auxiliary (neighbor) modulations.—C. Hatch.

*Prerequisite:* Course V 1329 or the equivalent.  
*Corequisite:* An appropriate level of the ear-training sequence (until completion of that sequence) as indicated by the placement test.

3 points. *x and y: Tu Th 10:35-11:50.*

## **MUS V 2100y, MUS V 2101x. Theory I and II.**

Equivalent to V 2100x-V 2101y.

*Prerequisite:* Course V 1329 or the equivalent.  
3 points.

*x: M W 1:10-2:25. P. Carpenter.*

*y: M W 1:10-2:25. J. Monod.*

## **MUS V 2300x-MUS V 2301y. Theory III and IV.**

Eighteenth-century harmonic and contrapuntal techniques; double counterpoint, canon, two-part writing in the form of binary movements, inventions, and contrapuntal settings of chorale tunes.—E.A. Lippman.

*Prerequisite:* Course V 2101 or the equivalent.  
*Corequisite:* An appropriate level of the ear-training sequence (until completion of that sequence) as indicated by the placement examination.

3 points. *Tu Th 10:35-11:50.*

## **MUS V 2303x. Theory V.**

Selected eighteenth- and nineteenth-century works.—Instructor to be announced.

*Prerequisite:* Course V 2300-V 2301 or the equivalent.

*Corequisite:* Appropriate ear-training sequence (until completion of that sequence) as indicated by the placement examination.

3 points. *M W 10:35-11:50.*

## **MUS V 2305y. Theory VI.**

Introduction to harmonic and contrapuntal techniques and structural principles of twentieth century music: selected twentieth century works.—Instructor to be announced.

*Prerequisite:* Course V 2303 or the equivalent.

*Corequisite:* appropriate ear-training sequence (until completion of that sequence) as indicated by the placement examination.

3 points. *M W 10:35-11:50.*

## **MUS V 3239x-MUS V 3240y. Composition.**

Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano.—Instructor to be announced.

*Prerequisite:* Course V 2301 or written permission of the instructor.

2 points. *F 1:10-3:00.*

## **MUS V 3373x-MUS V 3374y. Orchestration, Conducting and Score Reading.**

Lectures and practice in orchestration and score reading, supplemented by practical demonstrations of instruments.—H. Doris.

*Prerequisite:* Course V 3101 or the equivalent.  
3 points. *M W 3:10-4:25.*

## **PERFORMANCE ACTIVITIES**

### **(Applied Music)**

A detailed description of the following activities is given in *A Guide to Barnard*.

*Academic credit is granted only as indicated below.*

*Audition and rehearsal schedules for all activities will be posted outside the Columbia departmental office, 703 Dodge Hall, at least one week before registration.*

## **MUS V 1591x-MUS V 1592y. University Orchestra and Chamber Music.**

Auditions during registration period by appointment. Room 703 Dodge Hall. Students who register for orchestra alone will receive four points for four semesters, and will be charged at the rate of one point each semester. Students who register for orchestra and chamber music will receive four points for

# Music

two semesters, and will be charged at the rate of four points each semester.—H. Shanet and Staff.

*Audition necessary.*

*M 5:30-7:30 and additional rehearsals in the three weeks preceding each public concert.*

## **MUS V 1593x-MUS V 1594y. Barnard-Columbia Chorus.**

Auditions by appointment made at the first class meeting. Students who register for chorus will receive a maximum of four points for four or more semesters, and will be charged at the rate of one point each semester.—P. Schubert.

*Audition necessary.*

*Tu Th 6:00-8:00.*

## **MUS V 1595x-1596y. Barnard-Columbia Chamber Singers.**

A small number of students in the Barnard-Columbia Chorus are chosen to rehearse and perform difficult music in several languages.—P. Schubert.

*Not offered in the Fall.*

*1 point. Tu Th 8:00-9:30.*

## **COLLEGIUM MUSICUM**

This organization acquaints the student with certain neglected and unfamiliar masterpieces of vocal and instrumental music not heard in concerts elsewhere. Music majors are particularly urged to attend the meetings and to participate in performances.

## **MUSIC FOR AN HOUR**

This series of informal chamber concerts, held the last Tuesday in every month in the Sulzberger Parlor, is designed to give all interested instrumentalists a chance to perform for the University community. All those interested in participating should consult the department.

## **INSTRUMENTAL INSTRUCTION**

A maximum of two courses may be taken. Enrollment in additional courses in instrumental music is limited to music majors and to students concurrently enrolled in the theory sequence. Students will receive one point of degree credit for each course but will be charged tuition at the rate of three or four points for each course. Written permission from the chairman is required.

## **Music MUS W 1513x-W 1514y.**

### **Introduction to Piano.**

One half-hour private lesson weekly.

x: N. Østbye

y: M. Skelly.

*1 point. Hours to be arranged.*

## **GRADUATE COURSES OPEN TO QUALIFIED UNDERGRADUATES.**

### **Music MUS G 4001x. Monteverdi.**

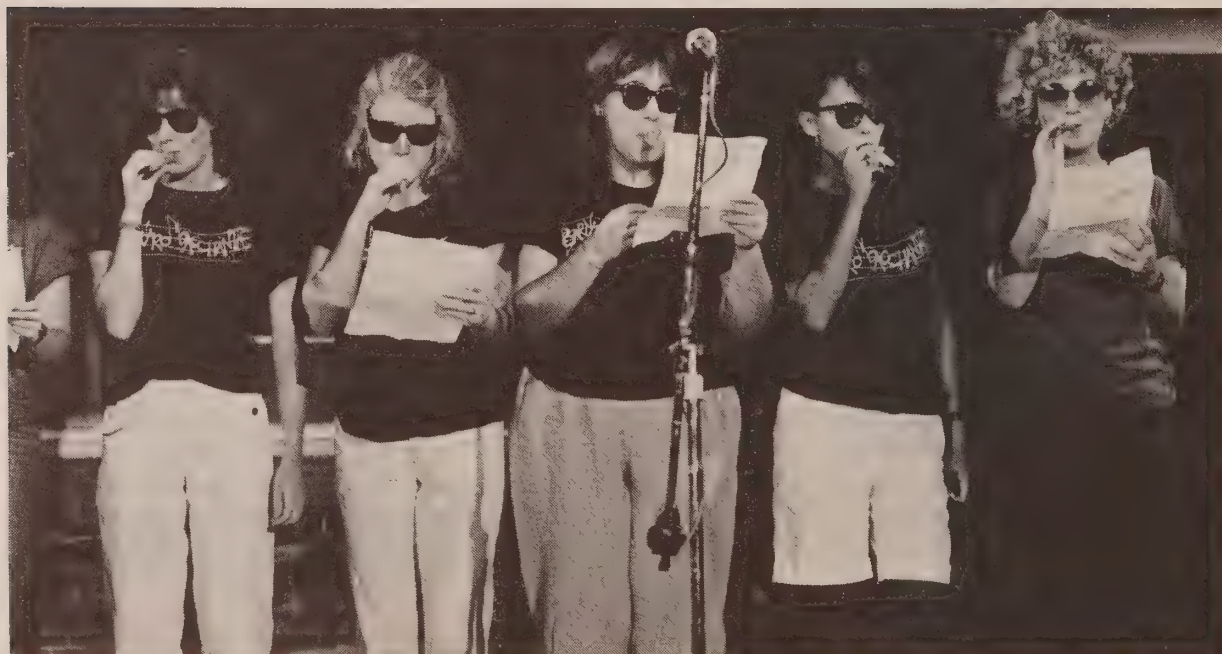
### **Music MUS W 4002y. The Production of Culture in Restoration France, 1815-1830: The Parisian Lyric Stage.**

### **Music MUS G 4012y. The Masses and Motets of Josquin des Prés.**

### **Music MUS G 4021x. Schubert.**

### **Music MUS G 4423y. Music in West Africa.**

### **Music MUS G 4426x. Music of India.**





# Oriental Studies

Office: 321A Milbank Hall

Telephone: 280-5417

## Professors

John Meskill,<sup>1</sup> Barbara Stoler Miller (Chairman)

## Adjunct Assistant Professor

Irene T. Bloom

Other officers of the University offering courses listed below:

## University Professor

William Theodore de Bary

## Professors

Kathleen R. F. Burrill, Pierre J. Cachia, Ainslie T. Embree (History), Donald Keene, Gary K. Ledyard,<sup>2</sup> Miyeko Murase, William Roff (History), Barbara Ruch, H. Paul Varley,<sup>3</sup> Alex Wayman

## Adjunct Professor

Philip B. Yampolsky

## Associate Professors

Paul Anderer,<sup>1</sup> Peter Awn (Religion),<sup>2</sup> Carol N. Gluck, George Saliba, Pauline Yu

## Visiting Associate Professor

Richard Rubinger

## Senior Lecturer

Jeanette Wakin

## Lecturer

Linda Fujie (Music)

## Assistant Professors

Yael Feldman, Marilyn Wong-Gleysteen (Art History and Archaeology), Robert Hymes, James Russell, Madeleine Zelin<sup>3</sup>

<sup>1</sup>Absent on leave, 1986-87

<sup>2</sup>Absent on leave, Autumn Term

<sup>3</sup>Absent on leave, Spring Term

The primary aim of Oriental Studies is to introduce major Asian civilizations, their works and values, as a means of expanding knowledge of the varieties and unities of human experience. The General Courses below are designed for any student, whatever her major interests, who wishes to include knowledge of Asian life in her education.

The satisfactory completion of one of the following courses offered in the departments of East Asian Languages and Cultures, and Middle East Languages and Cultures satisfies the college requirements in the respective languages: Akkadian G 4204, *Intermediate Akkadian: Introduction to Old Babylonian*; Arabic W 1122, *Intermediate Modern Arabic*; Armenian W 1124, *Intermediate Armenian*; Chinese C 1202 or F 1202, *Intermediate Chinese* (second stage); Hebrew W 1122, *Intermediate Modern Hebrew*; Hindi W 1122, *Intermediate Hindi*; Japanese C 1202 or F 1202, *Intermediate Japanese* (second stage); Iranian W 1122, *Intermediate Persian*; Sanskrit G 6102, *Intermediate Sanskrit*; Turkish W 1122, *Intermediate Turkish*, or Urdu W 4002, *Advanced Urdu*.

Literature courses in the departments of East Asian Languages and Cultures and Middle East Languages and Cultures in which readings are in the original languages may be used to fulfill the Barnard distribution requirements only with the permission of the Chairman of Oriental Studies.

Students who wish to enter Chinese, Japanese or Korean language courses above the introductory level *must* pass a language placement test before registering. Placement exams are given during the week *before* classes begin—contact Department of East Asian Languages and Culture (407 Kent) for exact dates. For placement above the

# Oriental Studies

introductory level in Arabic, Hebrew, Hindi, Persian, Sanskrit, Turkish, or Urdu, contact the Department of Middle East Languages and Cultures (609 Kent). All students wishing to enter the Hebrew language program or wishing exemption from the Hebrew language requirement must take a placement test. The test is administered every Wednesday during August from 11-1 in 609 Kent Hall.

## REQUIREMENTS FOR THE MAJOR

A student who plans to major in Oriental Studies is advised to consult a member of the department in the Spring Term of her freshman year. Majors in the program come under the administration of the Committee on Foreign Area Studies. For admissions procedures and other details, see page 133.

To major in Oriental Studies, a student will choose to follow one of two tracks, East Asia or Middle East.

### The East Asian Track

A minimum of 14 course is required, including:

2 of the following courses

Oriental Civilizations-  
Middle East V 3001

*Introduction to Major Topics in Asian  
Civilizations: The Middle East and India*

Oriental Civilizations-East Asia  
V 3002

*Introduction to Major Topics in Asian  
Civilizations: East Asia*

Oriental Civilizations V 3359

*Introduction to the Civilization of China*

Oriental Civilizations V 3361

*Introduction to the Civilization of Japan*

6 courses of an appropriate language, selected in consultation with an adviser;

4 courses on East Asia chosen from among those listed below, or with the adviser's permission, from the listings of other departments (Oriental Humanities V 3399-V 3400, *Colloquium*, may be substituted for one of the courses in this category); and

2 courses chosen from among East Asian seminars; East Asian W 4103, *Historiography of East Asia*; East Asian W 4101, *Critical Approaches to Chinese and Japanese Literature*; and Oriental Studies BC 3999, *Independent Study*.

### The Middle East Track

A minimum of 12 courses is required, including:

Oriental Civilizations-  
Middle East V 3001

*Introduction to Major Topics in Asian  
Civilizations: The Middle East and India*

4 to 6 courses of an appropriate language (Akkadian, Arabic, Armenian, Hebrew, Hindi-Urdu, Persian, Sanskrit, Turkish, or Uzbek), selected in consultation with an adviser;

A minimum of 6 courses chosen as a concentration. The concentration may be in ancient Semitic languages and cultures, Arabic studies, Armenian studies, Central Asian studies, Hebrew language, Indian studies, Iranian studies, or Turkish studies. The courses required in each of the concentrations and other details will be explained by the adviser. The courses listed under Middle East below represent a selection among those required in one or another of the concentrations. Students should consult the Middle East department office in 609 Kent Hall for a complete list of course offerings. See also the note on Graduate Courses at the end of this section.

## REQUIREMENTS FOR THE MINOR

No minor is offered in Oriental Studies.



# Oriental Studies

## COURSES OF INSTRUCTION

### GENERAL COURSES

**Oriental Civilizations-Middle East ORM V 3001y. Introduction to Major Topics in Asian Civilization: The Middle East and India.**

Interdisciplinary and topical approach to major issues and phases in development of Asian civilizations and their role in the contemporary world.—P. Awn and A. Embree.  
4 points. Tu Th 10:35-11:50. IV/S

**Oriental Civilizations-East Asia OEA V 3002y. Introduction to Major Topics in Asian Civilization: East Asia.**

Interdisciplinary and topical approach to major issues and phases in development of Asian civilizations and their role in the contemporary world.—W.T. de Bary, C. Gluck, R. Hymes, G. Ledyard, R. Rubinger, H.P. Varley, M. Zelin.  
4 points. Tu Th 10:00-11:50. IV/S

**Oriental Civilizations-Middle East ORM V 3003y. Introduction to Islamic Civilization.**

Islamic civilization and its characteristic political, social and religious institutions and intellectual traditions. From its pre-Islamic Arabian setting to the present.—J. Wakin.  
3 points. M W 2:40-3:55. IV/S

**Oriental Civilizations ORC V 3359y. Introduction to East Asian Civilizations: China.**

Evolution of Chinese civilization from ancient times to the 20th century, characteristic institutions and traditions.—I. Bloom.  
3 points. Tu 2:10-3:00, Th 2:10-4:00. IV/S

**Oriental Civilizations ORC V 3361x. Introduction to East Asian Civilizations: Japan.**

Development of Japanese society and culture; national self-image and values as revealed in thought, institutions, literature and the national arts.—H.P. Varley.  
3 points. M W 2:40-3:55. IV/S

**Oriental Studies ORS V 3379x. Readings in Oriental Studies.**

Readings on social and political conditions of China from the middle of the 19th century to recent times.—J. Meskill.  
*Not offered in 1986-87.*  
3 points.

**East Asian EAS V 3344x. Introduction to Chinese Aesthetics.**

An interdisciplinary introduction to the fundamental principles of Chinese aesthetics, examined in their philosophical and cultural context. Consideration will be given to both key theoretical texts and selected examples from the literary and artistic traditions.—P.R. Yu.  
3 points. Tu Th 1:10-2:25.

**Oriental Humanities ORH V 3399x, ORH V 3400y. Colloquium.**

Major works of Middle Eastern, Indian, Chinese and Japanese origin. V3399x: Koran, Sufi poetry, *Upanishads*, Buddhist sutras, *Bhagavad Gita*; V3400y: *Analects*, *Tao-te Ching*, *Dream of the Red Chamber*, *Tale of Genji*, and Chinese and Japanese poetry.—I. Bloom, B. Miller, P. Yampolsky, and staff.

*Prerequisite: Two courses from among literature, philosophy, religion, and Humanities, or permission of the instructor.*  
4 points.

*Section I W 4:10-6:00.*

*Section II (V 3400y only) Th 2:10-4:00. III/H*

**Oriental Studies-Religion OSR W 4399x, W 4400y. Colloquium on Major Texts of the Oriental Traditions in Religion, Ethics, Social Thought and Literature.**

Readings in translation. Autumn term: Koran, Islamic philosophy and theology, Ibn Khaldun, Sufi poetry, the *Upanishads*, Buddhist sutras, *Bhagavad Gita*, Sankara, Indian epics and drama; Spring term: *Analects* of Confucius, Lao Tzu, Mencius, *Lotus Sutra*, Zen texts, *Dream of the Red Chamber*, *Tale of Genji*, and Nō plays. Ethical and religious issues and their characteristic expression in diverse cultural traditions through a variety of literary forms.—P. Anderer, W.T. de Bary, I. Bloom, J. Russell, and staff.

*Knowledge of the original language not required.*  
3 points.

*M 4:10-6:00 (conference hour for undergraduates to be arranged).* III/H

**Middle East-Oriental Humanities OHM V 3031y. Islamic Literature in Translation.**

Modern literature of the Arabs, Persians, Turks, and other Islamic peoples.—K. Burrill.  
*Not offered in 1986-87.*  
3 points. III/H

# Oriental Studies

## **Oriental Music-Humanities V 3320y.**

### **Introduction to the Musics of East Asia and Southeast Asia.**

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations.—Instructor to be announced.

*3 points. Hours to be arranged.*

## **Middle East-Oriental Humanities OHM V 3403y. Forms of Art in Indian Asia.**

Classical Indian poetry, drama, painting, and sculpture from the perspectives of Indian religious ritual, political patronage and aesthetic theory.—B. Miller.

*Not offered in 1986-87.*

*3 points.*

*III/H*

## **Oriental Humanities ORH V 3200x. Oriental Encounters: The American Experience.**

Oriental classics of India, China, and Japan through the perceptions of Emerson, Thoreau, Whitman, Eliot, Pound, Twain, Kerouac, Ginsberg, and Snyder. The *Bhagavad Gita*, the *Dhammapada*, Zen dialogues and other sources relevant to the work of these writers.—B. Miller.

*Not offered in 1986-87.*

*3 points.*

*III/H*

## **Oriental Humanities ORH V 3340y.**

### **Masterpieces of Art in China, Japan, and Korea.**

Selected masterpieces of painting, sculpture, and architecture from the Han Empire in China to modern times in Japan, in relation to contemporary history, philosophy, religion, and literature.—M. Wong-Gleysteen.

*3 points. Tu Th 2:40-3:55.*

*III/H*

## **Oriental Studies-Philosophy OPS C 3915y. Philosophical Problems in Human Rights: A Comparative Analysis of Eastern and Western Traditions.**

I. Bloom and D. Sidorsky.

*Not offered regularly.*

*3 points.*

*III/H*

## **Oriental Studies ORS BC 3999x, ORS BC 3999y. Independent Study.**

Specialized reading and research projects planned in consultation with members of the Oriental Studies teaching staff.—Staff.

*Open to majors who have fulfilled basic major requirements on written permission of the staff member who will supervise the project.*

*4 points. Hours to be arranged.*

## **EAST ASIAN**

### **East Asian EAS V 3110x. Rulers and Ruled in Traditional China.**

R. Hymes.

*Not offered in 1986-87.*

*3 points.*

### **East Asian EAS V 3310y. Rebellion and Revolution in Modern China.**

Social protest and revolutionary movements in 19th- and 20th-century China; sectarian rebellion, secret societies and development of the communist revolution.—M. Zelin.

*Not offered in 1986-87.*

*3 points.*

### **East Asian EAS V 3365x. Poetry and Society in East Asia.**

An examination of Chinese, Japanese, and Korean poetry in its social context, focusing on the political, ideological, and aesthetic forces which shaped the distinctive poetic forms. Topics include Chinese court poetry, popular songs of protest, political allegory, poetry contests, and the culture of the "floating world."

*Not offered in 1986-87.*

*3 points.*

### **East Asian EAS V 3450y. China's Sprouts of Capitalism.**

An exploration of China's economic development from the eighteenth century to the present day. Special emphasis will be placed on China's early indigenous economic growth, the role of imperialism in modern Chinese economic history and the economic policies leading up to China's present Four Modernizations program.

*Not offered in 1986-87.*

*3 points.*

### **East Asian EAS V 3520y. Two Great Novels and their Worlds. Tale of Genji and Dream of the Red Chamber.**

Two masterpieces of Japanese and Chinese fiction, in translation, and through them the societies which they reflect.

*Not offered in 1986-87.*

*3 points.*



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## **East Asian EAS V 3530y. Image and Imagination in Chinese Poetry.**

A critical examination of imagery in classical Chinese poetry, its cultural presuppositions and interpretive legacy, as a means of understanding important trends within the tradition as a whole and comparing them with selected examples from Western poetic theory and practice.—P. Yu.

*Not offered in 1986-87.*

*3 points.*

## **Japanese JAP V 3516y. Japanese Writers since 1945.**

A consideration of the role of writers in Japanese society since the end of the war, covering the main literary, cultural, and political elements that have affected the writing and reading of literature during this time.—D. Keene.

*3 points. Tu Th 11:00.*

## **East Asian EAS V 3610y. Social Change Reflected in Literature and Films of Modern Japan.**

Changes in society and values during the modernization of Japan from the mid-19th century until the present, using fiction, diaries, popular culture, and films.—C. Gluck.

*3 points. M W 11:00-12:50.*

## **East Asian EAS V 3615x. Japanese Literature and Japanese Film.**

Japanese literary forms and literary content, and their relationship to Japanese film.—P. Anderer.

*Not offered in 1986-87.*

*3 points.*

## **East Asian EAS V 3620y. Japan: The Aesthetic Tradition.**

Cultural history, stressing aesthetic sensibility of the Japanese as revealed in religion, society, thought, and the arts. Landscape gardens, the culture of tea, Nō theater, and modern "I-novel."—H.P. Varley.

*Not offered in 1986-87.*

*3 points.*

## **East Asian EAS V 3625y. The Samurai, a Social and Cultural History of Japan's Warrior Class.**

A study of the warrior class of premodern Japan, its traditions, customs, and values, based on portrayals of the samurai and samurai life in historical records, literature, and the visual arts.—H.P. Varley.

*Not offered in 1986-87.*

*3 points.*

## **East Asian EAS V 3605x. Writers of Excess: Literature and Imagination in Modern Japan.**

A study of radical or aberrant strategies of cultural expression, after, and in response to, Japan's exposure to the West. Works range from the late nineteenth century poetry of Tokoku, to the contemporary fiction and plays of Abe, Mishima, and others.—P. Anderer.

*Not offered in 1986-87.*

*3 points.*

## **East Asian EAS V 3635x. Women in Japanese Literature, Language and Culture.**

An examination of women's participation in Japanese social, political, religious, and literary history from the 7th to the 20th century, with special attention to the role of women writers from the classical period to the present day.—B. Ruch.

*3 points. Tu Th 10:35-11:50.*

## **East Asian EAS V 3650x. The Family in Chinese History.**

The history of the Chinese family, its changing forms and cultural expressions: marriage and divorce, parent and child, clan and lineage, ancestor worship, the role of women, the relation of family and state, Western parallels and contrasts.—R. Hymes.

*3 points. M W 1:10-2:25.*

## **East Asian EAS G 4220x. Japanese Narrative.**

A study of the nature and function of Japanese narrative, from its beginnings to the present.—B. Ruch.

*Not offered in 1986-87.*

*3 points.*

## **East Asian EAS W 3902y. Senior Seminar: China.**

R. Hymes, P.R. Yu, and staff.

*Permission of the chairman required.*

*3 points. Hours to be arranged.*

## **East Asian EAS W 3904y. Senior Seminar: Japan.**

P. Anderer and staff.

*Permission of the chairman required.*

*3 points. Hours to be arranged.*

## **Chinese CHI G 4027x, 4028y. Introduction to Chinese Thought.**

A general introduction to the major works of Chinese classical philosophy and to the systematizing of classical thought in the Han period.—W.T. de Bary.

*3 points. M 9:00-10:50.*

# Oriental Studies

## **East Asian EAS W 4101y. Critical Approaches to Asian Literature.**

Principles of literary theory developed in the West, contrasted with literary criticism of China and Japan. Emphasis on the application of these critical methods to selected works of Chinese and Japanese poetry and prose.—P.R. Yu.

*3 points. Tu Th 1:10-2:25.*

## **East Asian EAS W 4103x. Historiography of East Asia.**

Major issues in the practice of history illuminated by a comparison of the works of great occidental and oriental historians, with emphasis on China.—R. Hymes.

*3 points. M W 10:35-11:50.*

## **Chinese-History CHH W 4820y. Overseas Chinese in Southeast Asia: History and Society, 13th-20th Century.**

The growth of the Chinese diaspora from early trading communities to the established minorities of today, emphasizing adaptation and retention of Chinese culture and institutions, economic roles, and sociopolitical relationships with host societies.—W. Roff.

*Not offered in 1986-87.*

*3 points.*

*IV/S*

## **History-Japanese HIJ W 3600x. World War II in American and Japanese History.**

From the separate and differing viewpoints of the two nations, an examination of the war as a central experience in recent history. Meaning and impact of the war on social, political, and intellectual life in the period from Versailles through Vietnam.—C. Gluck with lectures by W.P. Metzger, J. Shenton and others.

*Not offered in 1986-87.*

*3 points.*

## **History-Japanese HIJ G 4860x, HIJ G 4861y. Intellectual History of Modern Japan.**

The ideas, attitudes, and values informing Japanese society and culture from the Tokugawa synthesis of the 17th century to the present, including both intellectual and popular traditions—political ideology, popular culture, and the social history of ideas as well as formal thought.—C. Gluck.

*3 points. W 4:10-6:00.*

## **MIDDLE EAST**

### **Armenian-History AMH G 4502y. Armenian**

## **History and Civilization, I and II. (formerly History W 4501x, W 4502y)**

Introduction to the history and culture of Greater Armenia from the pre-Armenian Urartean period to the end of the Bagratid dynasty.—N. Garsoian.

*3 points. Tu 10:00-12:00.*

*IV/S*

## **Art History ARH V 3160x. Art of India.**

Commencing with the cities of the Indus Civilization in the third millennium B.C., this wide-ranging survey will take us through the history of Buddhist, Hindu and Islamic monuments of the Indian subcontinent. The arts of sculpture and painting are highlighted, and the art of adjoining areas such as Nepal and Sri Lanka are considered.—V. Dehejia.

*3 points. Tu Th 4:10-5:25.*

*I/H*

## **History HIS W 1001y. Ancient History of Egypt and Israel.**

M. Van De Mieroop.

*3 points. M W 11:00-12:15.*

*IV/S*

## **History HIS W 1002x. Ancient History of Mesopotamia and Asia Minor.**

M. Van De Mieroop.

*3 points. M W 11:00-12:15.*

*IV/S*

## **History-Middle East HME W 3901x. India in the Western Historical Imagination.**

The varieties of historical imagination in the Western understanding of India from the 18th to the 20th century as seen in diaries, memoirs, letters, and travel accounts.—A. Embree.

*Instructor's permission required.*

*4 points. W 4:10-6:00.*

## **History-Middle East HME G 4470y. Topics in the Ancient History of Southwest Asia.**

Southwest Asia in ancient times, considering both textual and archaeological evidence.

*Knowledge of the original languages is not required.*

*Not offered in 1986-87.*

*3 points.*

*IV/S*

## **History HIS W 4826y. History of Modern India and Pakistan.**

Development of modern India from the decline of the Mughal Empire and the first establishment of British power to the present time.—A. Embree.

*3 points. M W 11:00-12:15.*

*IV/S*



# Oriental Studies

## **Comparative Literature-Middle East CME W 4115y. Traditions of Indian Literature: Epic, Drama, and Lyric.**

Critical examination of selected ancient and classical Indian texts, focusing on the two ancient epics, Mahabharata and Ramayana, and the dramatic and lyric works related to them. Poems and plays in Sanskrit and Tamil will be studied in terms of Indian and Western theories of literature. Readings in translation.—B. Miller.

*Not offered in 1986-87.*

*3 points.*

## **Indic IND G 4102y. History and Cultures of the Himalayan Area.**

T. Riccardi.

*3 points. W 2:10-4:00.*

## **Indic IND G 4215y. Modern Indian Fiction.**

Major works of modern Indian fiction from 1930 to the present: Anand, Narayan, Rao, Desai, Anantha Murthy, Rushdie. Considerable emphasis on the social and historical context.—R. Lewis.

*3 points. Th 4:10-6:00.*

## **Indic-Religion INR G 4301y. Hindu and Buddhist Tantrism.**

A. Wayman.

*Not offered in 1986-87.*

*3 points.*

## **Indic-Religion INR G 4335x. History and Doctrine of Indian Buddhism.**

A. Wayman.

*Not offered in 1986-87.*

*3 points.*

## **Indic-Religion INR G 4340x. The Vedic Tradition.**

A. Wayman.

*3 points. W 11:00-12:50 and additional hours to be arranged.*

## **Indic-Religion INR G 4454y. Indian Philosophy.**

A. Wayman.

*3 points. W 11:00-12:50 and additional hours to be arranged.*

## **Islamic ISL W 4206x. Modernist Thought in the Arab World.**

New currents of thought in the Muslim Arab world; relation of Islam to events of the nineteenth and twentieth centuries.—M. Madina.

*Not offered in 1986-87.*

*3 points.*

## **Islamic ISL G 4230x. Survey of Islamic Science.**

Survey of scientific tradition of Islam from its earliest times till the end of the Middle Ages.—G. Saliba.

*3 points. W 11:00-1:00.*

## **Islamic-Religion ISR V 2630y. Islam.**

Survey of Islamic institutions, ideas, and spirituality, their origin and development in the formative and classical periods (7th to 13th century A.D.), and their continued evolution in a variety of cultural settings.—P. Awn.

*3 points. Tu Th 4:10-5:25.*

*IV/S*

## **Islamic-Religion ISR V 3635y. History of Sufism.**

History of the Islamic mystical tradition from its origins in the 8th century, through its classical and institutional phases in the 12th century and following, concluding with an evaluation of the role of Sufism in the modern Islamic world.—P. Awn.

*Not offered in 1986-87.*

*3 points.*

*IV/S*

## **Islamic-Religion ISR G 4610y. Islamic Religion.**

Survey of Islamic institutions in the formative and classical periods; revelation, prophecy, law, philosophy, theology, spirituality, community, religion and politics.—Instructor to be announced.

*A general knowledge of one other Western religion is recommended as well as familiarity with basic methodology in the study of religion.*

*Not offered in 1986-87.*

*3 points.*

## **Islamic Religion ISR W 4570x. Sexual Ethics and the Family in Islamic Law.**

Muslim law of personal status as developed by the classical jurists and modified by contemporary reforms in Muslim countries. Sexual ethics and practice; the law of marriage, divorce, inheritance; family structure and lineage ties.—J. Wakin.

*Not offered in 1986-87.*

*3 points.*

## **Islamic Religion ISR W 4500x. Major Themes in the Qur'an.**

Texts selected for study include passages on the doctrine of God, views of mankind, prophethood and revelation, eschatology, notions of history. Attention given to style, structure, and history of the text.—J. Wakin.

*Knowledge of Arabic is not required.*

*Not offered in 1986-87. 3 points.*

# Oriental Studies

## **Islamic Religion ISR W 4452x. Islamic Law.**

The origins of Islamic law, its religious, social and political background and its nature. The schools of law and the elaboration of a legal theory. Conflicts between theory and practice. Contacts with Western law and with customary law in newly Islamic areas. Modern developments and the part played by Islamic law in contemporary legal systems and legal thought in the Middle East.—J. Wakin.

*3 points. Th 9:00-10:50. Text analysis and discussion Th 11:00-12:15.*

## **Hebrew HEB G 4400x, HEB G 4401y.**

### **Bible as Literature.**

Recent literary approaches to Old Testament, narrative and verse: Alter, Auerbach, Barthes, Buber, Frye, Hrushovsky, Leach, etc. G 4400: *Genesis, Exodus, Judges, Samuel, Psalms*. G 4401: *Kings, Isaiah, Jeremiah, Ruth, Jonah, Ecclesiastes*.—Y. Feldman.

*Knowledge of Hebrew is not required.*

*3 points. Tu 2:10-4:00.*

## **Middle East MDE W 3015x. Mythologies of the Ancient Near East.**

M. Van De Mieroop.

*3 points. M W 1:10-2:25.*

## **Middle East MDE W 3018y. The Book Genesis.**

M. Van De Mieroop.

*3 points. M W 1:10-2:25.*

## **Middle East MDE W 4510x. Epic and the Middle East.**

A study of epic material recorded in ancient, medieval, and modern periods. Discussion of the epic tradition in the Mesopotamian, Jewish, Indic, Iranian, Armenian, Arab, central Asian, Turkish and Urdu literature and analysis of epic themes as a reflection of social and cultural development.—K. Burrill, F. Pritchett and others.

*Not offered in 1986-87.*

*3 points.*

Other general courses related to Oriental Studies:

## **History HIS W 1410x.**

### **Main Currents in Middle Eastern History.**

R. Bulliet.

*IV/S*

## **History HIS W 4422x.**

### **Islamic Society from Muhammad to the Mongol Invasion.**

R. Bulliet.

*IV/S*

## **Political Science POS BC 3424y. Colloquium on Asian Politics.**

L. Calman.

*Not offered in 1986-87.*

*V/S*

## **Religion REL V 1102x, REL V 1102y.**

### **Introduction to the Study of Religion:**

#### **Eastern Religions.**

*III/H*

Also note offerings under Eastern Religions in the Religion Department.

## **ORIENTAL LANGUAGE COURSES**

Language courses are offered through the departments of East Asian Languages and Cultures and Middle East Languages and Cultures. Consult the listings of these departments in the Columbia College and Graduate School of Arts and Sciences bulletins for detailed descriptions of courses. Three or more years of language instruction, beginning at the elementary level, are offered in Arabic, Armenian, Chinese, Hindi-Urdu, Japanese, Persian, Sanskrit, Turkish.

*No credit is given for the first semester of the elementary year until the second is completed.*

## **GRADUATE COURSES**

Certain graduate courses given in the University may be taken by majors, with the consent of the major adviser, to supplement department offerings. Consult the Bulletin of the Graduate School of Arts and Sciences for listings.



# Philosophy

Office: 326 Milbank Hall

Telephone: 280-4689, 5417

**Professors**

Hidé Ishiguro,<sup>1</sup> Sue Howard Larson, Mary Mothersill (Chair)

**Assistant Professors**

Robert Tragesser, Palle Yourgrau

**Visiting Associate Professor**

Douglas Husak

**Adjunct Associate Professor**

John Arras

**Lecturers**

Eric Katz (Environmental Science), John Lad, Jonathan Lieberson

Other officers of the University offering courses in Philosophy:

**Professors**

Bernard Berofsky, Arthur C. Danto, Richard F. Kuhns, Jr., Isaac Levi, Sidney Morgenbesser, Charles D. Parsons,<sup>2</sup> David Sidorsky, Gisela Striker, James F. Walsh

**Assistant Professors**

Charles Larmore, Shaughan Lavine, Thomas Pogge<sup>3</sup>

**Adjunct Associate Professor**

Leigh S. Cauman

<sup>1</sup>Absent on leave, Spring Term

<sup>2</sup>Absent on leave, Fall Term

<sup>3</sup>Absent on leave, 1986-87

The department offers a wide range of courses designed to acquaint the student with traditional and contemporary work in ethics, metaphysics, theory of meaning, aesthetics, theory of knowledge, and philosophy of logic. The courses are designed to facilitate student participation and each class is conceived as a workshop. The student is expected to develop a competence in technique of conceptual analysis, argument, and the interpretation of texts.

Philosophy BC 1001, *Introduction to Philosophy*, although not a requirement for the major, is recommended to students who have not had previous training in philosophy

**REQUIREMENTS FOR THE MAJOR**

A major in Philosophy consists of at least 10 courses:

V 3701 Moral Philosophy, V 3411 or V 3415 or F 3410 Formal Logic

One of the following courses:

Philosophy V 3121	<i>Plato</i>
Philosophy V 3131	<i>Aristotle</i>
Philosophy V 1101	<i>The History of Philosophy: Pre-Socratics through Augustine</i>

One of the following courses:

Philosophy V 3222	<i>Descartes, Spinoza and Leibniz</i>
Philosophy V 3240	<i>Locke, Berkeley and Hume</i>
Philosophy V 1201	<i>The History of Philosophy: Aquinas through Kant</i>

A course in a specific figure in the history of modern philosophy no later than Kant

or

One of the following courses:

# Philosophy

Philosophy V 3601  
Philosophy V 3501

*Metaphysics*  
*Theory of Knowledge*

Two semesters of Philosophy BC 3288-BC 3289 Majors' Seminar, and three electives.

The sequence of courses is to be determined in consultation with the major adviser. Philosophy BC 3288-BC 3289 may be taken either in the senior year or beginning in the second term of the junior year. The topic for the seminar is set each year on the basis of consultation with the students. A number of short papers will be required or, subject to departmental approval, a student may elect to write a Senior Essay.

Students who wish to complete a double or joint major including philosophy should consult the chairman of the department at as early a point in their planning as possible.

Philosophy BC 3398, BC 3399, *Supplementary Readings in Philosophy*, is open to students who have a well-developed individual project with departmental approval and permission of the instructor.

## REQUIREMENTS FOR THE MINOR

Five courses constitute a minor in philosophy. Courses are to be selected on the basis of consultation with the adviser.

## COURSES OF INSTRUCTION

### **PHI BC 1001x, PHI BC 1001y. Introduction to Philosophy.**

Interpretation and analysis of major topics in ethics, metaphysics, theory of knowledge, readings from historical and contemporary sources.—Staff.

3 points.

*Section I* M W 11:00-12:15. x: R. Tragesser,  
y: J. Lad.

*Section II* M W 1:10-2:25. x: P. Yourgrau,  
y: P. Yourgrau.

*Section III* Tu Th 1:10-2:25. x: S. Larson,  
y: M. Mothersill.

*Section IV* Tu Th 2:40-3:55. x: J. Lad, y:  
*Instructor to be announced.*

### **PHI V 3601x. Metaphysics.**

Systematic treatment of some major metaphysical topics, e.g., necessity, causality, particulars and universals, personal identity; readings from classical and contemporary authors.—S. Larson.

*Prerequisite:* One philosophy course or permission of the instructor.

3 points. Tu Th 6:10-7:35. III/H

### **PHI V 3501x. Theory of Knowledge.**

Contemporary issues in the theory of knowledge and their historical sources.—I. Levi.

*Prerequisite:* One philosophy course or permission of the instructor.

3 points. Tu Th 2:40-3:55. III/H

### **PHI BC 3161x. Greek Philosophy.**

An introductory study of classical authors. Topics to be selected in consultation with the instructor. Limited enrollment.

—P. Yourgrau.

3 points. Tu Th 10:35-11:50. III/H

### **PHI V 3121x. Plato.**

An introduction to Plato's philosophy through analysis of characteristic middle dialogues, including the *Meno* and the *Gorgias*.—G. Striker.

*Prerequisite:* One philosophy course or permission of the instructor.

3 points. M W 11:00-12:15. III/H

### **PHI V 3131y. Aristotle.**

An introduction to the leading concepts and doctrines of Aristotle's philosophy through analysis of selected texts in logic, physics, psychology and metaphysics.—G. Striker.

*Prerequisite:* One philosophy course or permission of the instructor.

3 points. M W 11:00-12:15. III/H

### **PHI V 1101x. The History of Philosophy: Pre-Socratics through Augustine.**

Exposition and analysis of the positions of the major philosophers from the pre-Socratics through Augustine.—J. Walsh.

*Prerequisite:* One philosophy course or permission of the instructor.

3 points. M W 2:40-3:55. III/H



# Philosophy

## **PHI V 1201y. The History of Philosophy: Aquinas through Kant.**

Exposition and analysis of the positions of the major philosophers from Aquinas through Kant.—J. Walsh.

*Prerequisite:* One philosophy course or permission of the instructor.

3 points. M W 2:40-3:55.

III/H

## **PHI V 3222x. Descartes, Spinoza and Leibniz.**

A systematic analysis of concepts central to seventeenth-century Rationalism. The focus is on problems in epistemology and metaphysics discussed in relation to logical theory and philosophy of science.—H. Ishiguro.

*Prerequisite:* One philosophy course or permission of the instructor.

3 points. M W 11:00-12:15.

III/H

## **PHI V 3240y. Locke, Berkeley and Hume.**

A study of the principal topics of British Empiricism. Problems to be discussed include: sense perception, innate ideas, foundations of empirical knowledge, substance and cause, personal identity and freedom of the will.—R. Tragesser.

*Prerequisite:* One philosophy course or permission of the instructor.

3 points. M W 11:00-12:15.

III/H

## **PHI BC 3352y. Recent European Philosophy.**

Contemporary developments in continental philosophical movements.—C. Larmore.

3 points. Tu Th 1:10-2:25.

III/H

## **PHI V 3364x. Wittgenstein.**

An examination of the relation of the philosophical views of Wittgenstein to those of Frege and Russell, and a discussion of the central problems in his works as, e.g., rule-following, privacy, psychological concepts, myths, identity, logical form.—H. Ishiguro.

3 points. Tu Th 2:40-3:55.

III/H

## **PHI F 3410y. Formal Logic.**

A first course in modern symbolic logic, reviewing a variety of logic methods and systems; emphasis on the concept of proof.—L. Cauman.

*Prerequisite:* Philosophy F 1401 or permission of the instructor.

4 points. M W 6:10-7:25.

III/H

## **PHI V 3411x. Formal Logic A.**

Deductive logic: basic concepts and techniques of propositional and quantificational logic. Treatment by these methods of argu-

ments in ordinary language. Relations of the concepts of truth, proof, interpretation and validity. The relation of logic to science.—Instructor to be announced.

*Prerequisite:* One philosophy course or permission of the instructor.

3 points. Tu Th 10:35-11:50.

III/H

## **PHI V 3415y. Formal Logic B.**

Basic concepts and techniques of propositional and quantificational logic and their use for treating arguments in ordinary language. Metatheoretical analysis of (i) the relation between logical truth and proof (Gödel's completeness theorem) and (ii) the problem of deciding logical questions by idealized computers (Church's theorem).—S. Lavine.

*Prerequisite:* One philosophy course or permission of the instructor. A student may not take both Formal Logic A and Formal Logic B for credit.

3 points. Tu Th 9:10-10:25.

III/H

## **PHI V 3483y. Theory of Meaning.**

Consideration of questions about the nature of language and truth, with attention to the role of the concept of truth in constructing theories of meaning for natural languages. Readings from Frege, Tarski, Austin, Davidson and others.—S. Larson.

*Prerequisite:* One philosophy course or permission of the instructor.

3 points. Tu Th 2:40-3:55.

III/H

## **PHI V 3701y. Moral Philosophy.**

Introduction to the central problems of moral philosophy; reasons for action; obligation; rights and duties; alternative moral ideals; the status and justification of moral judgments.—D. Sidorsky.

*Prerequisite:* One philosophy course or permission of the instructor.

3 points. M W 2:40-3:55.

III/H

## **PHI V 3715y. Topics in Moral Philosophy: Equality.**

A consideration of how, in the light of the facts, it could make sense to think of equality as a moral ideal or a social goal. Readings from classical and contemporary sources.—M. Mothersill.

*Prerequisite:* One philosophy course or permission of the instructor.

3 points. Tu Th 10:35-11:50.

III/H

# Philosophy

## **PHI V 3651y. Philosophy of Mind.**

A consideration of such central topics as perception, sensation, imagination, emotion, dreaming, intention, volition, madness, self and subjectivity. Although references are made to the views of Aristotle, Descartes, Hume, Rousseau, Sartre and Wittgenstein, the main texts are contemporary works that discuss conceptual issues raised by the topics listed.—P. Yourgrau.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. Tu Th 1:10-2:25.

III/H

## **PHI V 3720x. Ethics and Medicine.**

Philosophical examination of moral issues in medical theory and practice. Analysis of the ethics of the doctor-patient relationship, e.g., informed consent, truth-telling, paternalism; topics in bioethics, e.g., abortion, euthanasia, experimentation on humans, justice and access to health care, human genetics.—J. Arras.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. Tu 1:00-4:00.

III/H

## **PHI V 3765y. Ethics and International Affairs.**

Introduction to problems at the intersection of ethics and international relations. The topics to be discussed include recent arguments in favor of an international morality, skepticism about the possibility of moral conduct among nation states, applications of Rawls' contract theory to a global context, autonomy, liberty, self-determination, international justice, and enforcement of international moral standards.—J. Lieberman.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. M W 4:10-5:25.

III/H

## **PHI V 3780y. Philosophy of Law.**

An investigation of the uses of law. Among the topics covered are the nature of harm, paternalism, welfare legislation, obscenity, deterrence and retributive theories of punishment, justification and excuse, the insanity defense, the death penalty, the relation of law to morality.—D. Husak.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. Th 1:00-4:00.

III/H

## **PHI V 3786y. Free Will and Responsibility.**

New and traditional approaches to the ques-

tion of the existence and nature of human freedom are explored. Special attention is paid to the impact on theories of freedom of metaphysical positions such as determinism and views about the nature of moral responsibility. Legal responsibility and theories of punishment are also discussed.—B. Berofsky.  
*Prerequisite: One philosophy course or permission of the instructor.*

3 points. M W 4:10-5:25.

III/H

## **Environmental Science-Philosophy**

### **ESP BC 3025y. Ethics and the Environment.**

A philosophic examination of the relationship between humanity and nature with a focus on the moral justifications for environmental policies. Topics include: the utility of the natural environment, responsibilities to future generations, and the moral consideration of nature. Readings from several disciplines: philosophy, ecology, economics, political theory.—E. Katz.

3 points. Tu Th 2:40-3:55.

III/H

## **PHI V 3758x. Philosophy of Education.**

Philosophical reflections suggested by the analysis of particularly difficult pedagogical problems, as, e.g., those that arise in teaching autistic children or in dealing with groups from different ethnic and cultural backgrounds. Drawing on classical and contemporary authors, discussion will focus on the question of the conditions requisite for producing free and responsible individuals. Readings from Plato, Augustine, Rousseau, Emerson, Dewey and others.—R. Tragesser.  
3 points. Tu Th 1:10-2:25.

III/H

## **PHI V 3801y. Aesthetics.**

Systematic inquiry into major problems in the philosophy of art: Idealism (Hegel), Nietzsche, Freud; Modernity and Formalism (Kant); and Imitation Theory (Plato and Aristotle).—R. Kuhn.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. Tu Th 2:40-3:55.

III/H

## **PHI V 3850x. Concept of Literature.**

A study of the philosophical problems connected with truth and meaning in the literary arts, especially poetry. The focus will be on discoveries made by close reading, rhetorical analysis and deconstruction. Selected readings from Coleridge, Kierkegaard, Heidegger, Richards, Empson, Wimsatt, De Man, Hollander and others.—R. Tragesser.



# Philosophy

*Prerequisite: One philosophy course or permission of the instructor.*

*3 points. M W 2:40-3:55.*

## **PHI BC 3288x, PHI BC 3289y. Majors' Seminar.**

Intensive study of selected philosophical classics; discussions, oral reports, and term papers.—x: S. Larson, y: P. Yourgrau.

*Enrollment limited to majors. Required of all majors.*

*4 points. W 4:10-6:00. Conference hours to be arranged. III/H*

## **PHI BC 3399x, 3399y. Supplementary Readings in Philosophy.**

*To be taken only with the consent of the instructor of the department.*

*4 points. Hours to be arranged.*

## **PHI V 3803y. The Concept of Beauty.**

*Not offered in 1986-87.*

*3 points.*

## **PHI V 3653. Philosophy of Body.**

*Not offered in 1986-87.*

*3 points.*

## **PHI V 3680. Attitude, Action and Reason.**

*Not offered in 1986-87.*

*3 points.*

## **PHI V 3753. Social Philosophy.**

*Not offered in 1986-87.*

*3 points.*

## **PHI V 3270. Nineteenth-Century Philosophy.**

*Not offered in 1986-87.*

*3 points.*

*III/H*

## **PHI V 3301. Twentieth-Century Philosophy.**

D. Sidorsky.

*Not offered in 1986-87.*

*3 points.*

*III/H*

## **PHI V 3657. Philosophical Idealism and Psychoanalytic Theory.**

*Not offered in 1986-87.*

*3 points.*

## **PHI V 3654y. Philosophy of Psychology.**

*Not offered in 1986-87.*

*3 points.*

## **Philosophy-Women's Studies PWS PHI BC 3147. Philosophical Issues of Feminist Theory.**

*Not offered in 1986-87.*

*3 points.*

*III/H*



# Physical Education

*Office: 209 Barnard Hall*

*Telephone: 280-2085*

## **Senior Associate**

Jean Follansbee (Chairman)

## **Associates**

Priscilla Gilmore, Sharon Everson, Catherine Hartmann, Theodora Ierides, Christine Patten

## **Instructor**

Robin Rosenthal

## **Curriculum**

The curriculum is organized and administered by the faculty of the Department of Physical Education. Instruction is offered in the areas of sports, aquatics, movement, fitness, aerobics, and other specialized courses. Modern dance, ballet, tap, and jazz dance courses are offered under the auspices of the Dance Department and may be taken to fulfill the Physical Education requirement. Courses are designed to promote the development and enjoyment of lifetime motor skills which will afford opportunities to realize one's potential, and to provide vigorous exercise to release tensions often generated by strong academic commitments and intense urban life.

## **Intercollegiate Athletics**

The Barnard/Columbia Athletic Consortium provides the opportunity for eligible undergraduate women to compete together as members of University-wide athletic teams. Eleven varsity sports are currently sponsored: Archery, Basketball, Crew, Cross Country, Fencing, Soccer, Swimming & Diving, Tennis, Indoor and Outdoor Track & Field, and Volleyball. Governed by NCAA and Ivy League rules, all teams are Division I. Competition is scheduled with teams from the Ivy League, the metropolitan area, and the eastern region. In addition, students are eligible to qualify for state, regional, and national championships. Physical Education credit may be earned through satisfactory participation on a varsity team.

For more information contact Margie Tversky, Associate Director of Athletics, at the Columbia Dodge Fitness Center, or check for information in the Physical Education Department in room 209, Barnard Hall.

## **Recreation**

Recreational use of the gymnasium, swimming pool, track, weight room, and bowling alleys is available at specified times. All students, faculty, and staff are encouraged to participate and use the facilities.

## **Intramurals**

The Physical Education Department offers an extensive intramural program which features competition in archery, badminton, basketball, bowling, fencing, indoor soccer, wiffle ball, tennis, ultimate frisbee, volleyball, fun runs, and recreational games. For more information contact the Intramural Office, 206 Barnard Hall, or call 280-2085.

## **Health Status**

Freshmen and transfer students must submit a medical report to the Office of Health Services upon admission to the college. Students who have failed to submit a medical report may *not* participate in physical education classes and activities.

Students with permanent or temporary disabilities will be individually advised and placed in a suitable activity where possible, based upon the recommendations of the College Physician.



# Physical Education

## Requirement

Students admitted as freshmen must complete two semesters of Physical Education at Barnard. One semester must be passed in the freshman year and the requirement must be completed by the end of the sophomore year. Sophomore and junior transfers are required to complete one semester of Physical Education at Barnard. Transfers are expected to complete their requirement by the end of the junior year. Failure to complete the requirement by the specified deadlines will result in a failing grade. Physical Education courses are graded pass-fail based on attendance and participation.

## Registration

Registration for the Fall semester takes place starting the Tuesday after Labor Day and continues through that week outside Room 209 Barnard Hall. Registration for the Spring semester takes place starting the first day of academic classes in January. *After confirming registration with the Physical Education Department*, students should include the Physical Education course by number, section, title and I.D. number on final programs filed with the Registrar.

An agreement between the Department of Physical Education of Barnard College and Columbia College permits limited enrollment of Barnard students in some Columbia courses. Columbia College and Engineering School students may register for some Barnard courses through the Columbia Physical Education Department. **Other Columbia University students must receive permission from the Physical Education Department to register before filing their final program with the Registrar.**

## Courses

Classes are organized in homogeneous skill groups for optimal learning. Students are advised to register according to their own skill level. (A) = Beginning, (B) = Advanced Beginning, (C) = Intermediate, (D) = Advanced.

## COURSES OF INSTRUCTION

### AQUATICS COURSES

#### **PED BC 1120x, PED BC 1120y. Beginning Swimming. (A)**

Development of confidence and survival techniques in the water. Introduction of front crawl and elementary backstroke.

#### **PED BC 1121x, PED BC 1121y. Advanced Beginning Swimming. (B)**

Review of survival techniques, front crawl and elementary backstroke. Introduction of breaststroke.

#### **PED BC 2122x, PED BC 2122y. Intermediate Swimming. (C)**

Further development of the front crawl, elementary backstroke, and breaststroke. Introduction of advanced survival techniques, sidestroke, backcrawl and open turns.

#### **PED BC 3123x. Advanced Swimming. (D)**

Development of endurance and perfection of stroke technique of front and back crawl, elementary backstroke, sidestroke, breaststroke, trudgeons, inverted backstroke, butterfly, and overarm sidestroke.

*Not offered in 1986-87.*

#### **PED BC 2124y. Aqua-Aerobics. (C)**

Combination of various swimming strokes and water exercises used to develop cardiovascular endurance and muscle tone.

#### **PED BC 3125x, PED BC 3125y. Lap Swim. (D)**

Students determine an individual training program with the instructor on a contract basis.

*Not open to freshmen. Swimming test for class admission given at first class meeting.*

#### **PED BC 3128x. Advanced Lifesaving and C.P.R. (D)**

Personal safety, swimming rescues, preventive lifeguarding; leads to two Red Cross certifications.

*Swimming test for class admission given at first class meeting.*

#### **PED BC 3129y. Water Safety Instructor Course. (D)**

Review of skills for beginner through lifesaving courses, instruction in teaching techniques; leads to Red Cross certification; **Current Advanced Lifesaving certification required.**

*Swimming test for class admission given at first class meeting.*

*Permission of instructor required.*

# Physical Education

## SPORTS COURSES

### **PED BC 1350x, PED BC 1350y. Beginning Archery. (A)**

Basic techniques of shooting target archery for the beginner; selection and care of equipment; safety; intraclass tournaments and novelty shoots.

### **PED BC 2351y. Intermediate and Advanced Archery. (CD)**

Advanced techniques for the archer who has had the equivalent of a semester of instruction; opportunity to compete informally in class and to prepare for membership on the Archery Team.

*Permission of the instructor required.*

### **PED BC 1353x, PED BC 1353y. Badminton. (ABCD)**

Strokes, strategies, singles and doubles play. Intraclass tournaments provide competition for all levels.

### **PED BC 1455x, PED BC 1455y. Basketball. (ABC)**

Basic skills of conditioning, ball handling, and shooting, offensive and defensive patterns of play. Drills as well as game play.

### **PED BC 1357x, PED BC 1357y. Beginning and Advanced Beginning Bowling. (AB)**

Basic techniques of spot bowling and spare conversion; scoring and game play.

### **PED BC 2358x, PED BC 2358y. Advanced Bowling. (CD)**

Must average 100, show knowledge of technique and spot bowling to qualify.

*Not open to freshmen.*

*Permission of the instructor required.*

### **PED BC 1360x, PED BC 1360y. Beginning Fencing. (A)**

Basic offensive and defensive foil techniques; footwork; rules and officiating.

### **PED BC 1361y. Advanced Beginning and Intermediate Fencing. (BC)**

Expansion of basic skills and tactics; use of electrical apparatus; intraclass tournaments and development of officiating skills. *Completion of Fencing (A) or permission of the instructor required.*

### **PED BC 1364x, PED BC 1364y. Beginning Tennis (A)**

Basic forehand, backhand, drives and volleys, and introduction to the serve; scoring.

### **PED BC 1365x, PED BC 1365y. Advanced Beginning Tennis. (B)**

Refinement of forehand, backhand, volley and serve; scoring; simulated games.

### **PED BC 2366x, PED BC 2366y.**

#### **Intermediate Tennis. (C)**

Further development of strokes, service return; net play; doubles play.

### **PED BC 2367x, PED BC 2367y.**

#### **Intermediate and Advanced Tennis. (CD)**

Advanced net play, overheads; strategy; singles and doubles.

*Permission of the instructor required.*

### **PED BC 1470x, PED BC 1470y. Beginning and Advanced Beginning Volleyball. (AB)**

Introduction of forearm pass, overhead fingertip pass, serve and spike, and basic offensive and defensive strategies.

### **PED BC 2471x, PED BC 2471y.**

#### **Intermediate and Advanced Volleyball. (CD)**

Power volleyball skills and various offensive and defensive strategies.

## SPECIAL COURSES

### **PED BC 1680x, PED BC 1680y. Beginning Movement Workshop. (A)**

Creative exploration, analysis and observation of movement.

*Not offered in 1986-87.*

### **PED BC 1681y. Advanced Beginning Movement Workshop. (B)**

Exploration of student's individual movement patterns. Works of Laban and Bartenieff will be used as tools for analysis.

*Not offered in 1986-87.*

### **PED BC 1582x, PED BC 1582y. Aerobic Dance.**

Vigorous movement routines choreographed to popular music to develop cardio-vascular endurance and muscle tone.

### **PED BC 1583x, PED BC 1583y. Beginning Fitness. (A)**

Introduction to a variety of conditioning programs; improvement of flexibility, strength, and cardio-vascular efficiency.

### **PED BC 1584y. Advanced Beginning Fitness (B).**

Continuation of beginning fitness; designed for the individual at a medium level of fitness.



# Physical Education

## **PED BC 2584y. Intermediate Fitness. (C)**

Intensive fitness program for students who have taken BC 1583 or who have been engaged in a vigorous conditioning program.

## **PED BC 1585x, PED BC 1585y. Beginning Weight Training. (A)**

Introduction to principles of weight training; use of the Universal Weight Machine and free weights. Programs tailored to individual needs.

## **PED BC 1586y. Advanced Beginning Weight Training. (B)**

Continuing of beginning weight training; emphasis on free weights and individualized training.

*Weight Training (A) or permission of the instructor required.*

## **PED BC 1688x, PED BC 1688y. Stress Management.**

Techniques of releasing muscle tension in the skeletal muscles of the body.

## **PED BC 1690x, PED BC 1690y. Beginning Self Defense. (A)**

Development of confidence, using basic defensive and offensive moves, so that a person can handle a threatening situation effectively and with minimal confrontation.

## **PED BC 1693x, PED BC 1693y. Beginning Yoga. (A)**

Basic Hatha yoga positions; body awareness; relaxation.

## **PED BC 1695x, PED BC 1695y. Advanced Beginning Yoga. (B)**

Basic standing poses and inverted postures—plough, shoulderstand, headstand, handstand.

## **PED BC 2694x, PED BC 2694y. Intermediate Yoga. (C)**

Advanced Hatha yoga postures; inverted positions; breathing and concentration techniques.

## **PED BC 2799x, PED BC 2799y. Independent Study.**

Enrollment in a course of instruction.

*Not open to freshmen or transfer students. Approval of Department required. Limited to one semester of credit.*

## **PD BC 3898x, PED BC 3898y. Varsity Team—Archery.**

Practice and intercollegiate competition in Indoor Target Archery.

*Permission of coach required.*

*For other Varsity teams see Columbia course offerings.*

## **DANCE**

See Dance Department (page 105) for course listings. Studio Dance Courses may be taken to fulfill the Physical Education requirement.

Courses offered are:

Ballet—Beginning, Low Intermediate, Intermediate, Advanced.

Jazz—Low Intermediate, Intermediate.

Modern—Beginning, Low Intermediate, Intermediate.

Tap—Beginning, Intermediate.



# Physics

Office: 503 Altschul Hall

Telephone: 280-5101

## Professor

Richard M. Friedberg

## Assistant Professors

Karen M. Barad, Sally Etherton Cummins (Departmental Representative)

Other officers of the University offering courses listed below:

## Professors

Charles Baltay, Norman Christ, Gerald Feinberg, Paolo Franzini, Sven Hartmann, T.D. Lee, Wonyong Lee, Joaquin Luttinger, Alfred Mueller, Shoji Nagamiya, Robert Novick, Malvin Ruderman, Allan Sachs, Frank Sciulli, Jacob Shaham

## Associate Professors

Allen Blaer, David Helfand, Michael Shaevitz, Erick Weinberg

## Assistant Professors

Elena Aprile, Robert Blair, Eric D'Hoker, Jules Halpern, Adrianus Pruiskien, Richard Seto, Stephen Smith, Wesley Smith, Anthony Terrano, Michael Tuts, George Tzanakos.

The study of physics ranges from disciplined preparation for professional work in physics itself, or a basic education in physics necessary for the study of, or work in, other sciences and medicine, to a more general familiarity with physics and its historical development as part of contemporary culture.

In cooperation with the faculty of the University, Barnard offers a thorough pre-professional curriculum. The faculty represents a wide range of expertise, with special strength and distinction in elementary-particle and theoretical physics.

The unique facilities of Barnard's History of Physics Laboratory, oriented to the broader perspective, are available to students at all levels—from introductory classes to individual studies and researches.

The department offers four distinct introductory sequences, only one of which may ordinarily be taken for credit.

1. C 1001-C 1002, *Elementary Physics*, and V 1305-V 1306, *Physics in Historical Perspective*, are intended for liberal arts students whose aim is to achieve some qualitative understanding of science.
2. Either V 1003, V 1004, *General Physics*, or V 1103, V 1104, *General Physics*, is satisfactory preparation for medical school. Both cover the same material, but V 1103, V 1104 is somewhat more intensive and uses calculus; V 1003, V 1004 is not recommended as a foundation for more advanced work in physics.
3. An entering student with a serious interest in physics should enroll in the Autumn Term in C 1406, *General Physics I. Mechanics*, and the accompanying laboratory course, W 1906, which begins a four-term sequence (C 1407, C 1011, C 1012, *General Physics II-IV*, or the corresponding honors courses C 1607, C 1111, C 1112), leading to more advanced courses. Prospective majors should then take W 1907 concurrently with C 1407 or C 1607 in the Spring Term. (C 1011, C 1012, C 1111, and C 1112 may be taken without laboratory by nonmajors. See the Columbia College Bulletin for the appropriate course numbers.)
4. Freshmen with exceptional aptitude for physics and a good mathematical background may be admitted into the two-semester sequence, C 1021, C 1022, *General Physics*, which replaces all four terms of the sequence starting with C 1406. Admission is by special interview with the instructor. A student interested in this course should, if possible, attend the "Physics Placement Meeting" announced in the Columbia College Freshman Week Program.



## REQUIREMENTS FOR THE MAJOR

The courses required for a major in physics are:

Four semester introductory sequence: C 1406x with W 1906x, or F 1006y; C 1407y (or C 1607y—honors section) with W 1907y, or F 1007x; C 1011x or C 1111x or F 1011y; C 1012y or C 1112y; or F 1012x.

Two semester introductory sequence: C 1021x and C 1022y.

With special permission V 1103 and V 1104 may be substituted for all or part of the above courses.

W 3003	<i>Mechanics</i>
W 3007, W 3008	<i>Theory of Electricity and Magnetism</i>
W 3021	<i>Quantum Physics</i>
W 3022	<i>Statistical Physics</i>
W 3083	<i>Electronics Laboratory</i>

and 4½ points of intermediate laboratory work (W 3081, *Intermediate Laboratory Work*; BC 3011, BC 3012, *History of Physics Laboratory*), of which a minimum of three points of laboratory work in W 3081 is required.

All 1000-level courses must be taken with laboratory.

Four terms of calculus are required, and some additional work in mathematics is recommended. The program should also include a year of chemistry, although in some instances astronomy, geology, or biology may be substituted.

In addition, students planning to study physics in graduate school are strongly urged to take:

G 4003	<i>Lagrangian Mechanics</i>
G 4021	<i>Quantum Mechanics</i>
G 4022	<i>The Physics of Atoms, Solids, Nuclei, and Particles</i>
W 3072	<i>Seminar in Current Research.</i>

The major examination consists of the Graduate Record Examination in physics.

## REQUIREMENTS FOR THE MINOR

Courses required for the minor are C 1406 with W 1906 or F 1006; C 1407 (or C 1607) with W 1907, or F 1007; C 1011 or C 1111 or F 1011; C 1012 or C 1112 or F 1012; and one 3-point course at the 3000 level.

## COURSES OF INSTRUCTION

### PHY V 1305x, PHY V 1306y. Physics in Historical Perspective.

Topics in classical and modern physics with an emphasis on the historical development of physical theories. The experimental work is done in the History of Physics Laboratory. —K. Barad.

*Although this course is oriented primarily to non-science students, the course does require a willingness to review and use elementary algebra. Enrollment limited to 25 students.*

*Permission of the instructor required.*

*4½ points. Lecture Tu Th 1:10-2:25.*

*Laboratory 3 consecutive hours weekly to be arranged.*

### PHY C 1001x, PHY C 1002y. Elementary Physics.

Introduction to physics for students with no

previous background. In the first semester the course deals with the physics of energy and in the second semester with relativity and sub-atomic physics.—W. Smith

*This course uses very little mathematics. It does not fulfill the physics requirement for admission to medical school. It is primarily addressed to non-science students.*

*3 points. Lecture M W 1:10-2:25.*

### PHY V 1003x, PHY V 1004y. General Physics.

Mechanics and heat, electricity, magnetism, optics, and modern physics.—S. Cummins and instructor to be announced.

*Calculus is not a prerequisite for this course.*

*4 points.*

*Lecture:*

*Section I M W 11:00-12:15.*

*Section II Tu Th 11:00-12:15.*

# Physics

*Laboratory 3 consecutive hours to be chosen from M Tu W Th F 1:10-4:00 or 4:10-7:00. Laboratory sections are arranged after the first class meeting.*

## **PHY F 1003y. General Physics.**

Instructor to be announced.

4 points. Lecture M W 6:10-7:25.

*Laboratory 3 consecutive hours to be arranged.*

## **PHY W 1003y, PHY W 1004x. General Physics.**

E. Aprile.

4 points. Lecture Tu Th 2:40-3:55.

*Laboratory 3 consecutive hours to be arranged.*

## **PHY V 1103x, PHY V 1104y. General Physics.**

Same topics as V 1003-V 1004 discussed at a somewhat higher level, using calculus.—M. Tuts.

*Prerequisite: Calculus I and II.*

4 points. Lecture M W 11:00-12:15.

*Laboratory 3 consecutive hours to be chosen from M Tu W Th F 1:10-4:00 or 4:10-7:00.*

*Laboratory sections are arranged after the first class meeting.*

## **PHY C 1406x. General Physics I. Mechanics.**

Fundamental laws of mechanics; kinematics, dynamics; work and energy; rotational dynamics and angular momentum; introduction to special relativity and relativistic kinematics.—R. Blair, G. Tzanakos, A. Blaer.

*Corequisite: Calculus I or the equivalent.*

3 points.

Section I F 9:00-9:50.

Section II Tu Th 11:00-12:15.

## **PHY C 1407y. General Physics II. Electricity and Magnetism.**

Electrostatics; direct currents; electromagnetism; alternating currents; wave motion.—Instructor to be announced.

*Prerequisite: C 1406. Corequisite: Calculus II or the equivalent.*

3 points. M W F 9:00-9:50.

## **PHY W 1906x, PHY W 1907y. Physics Laboratory.**

Experiments in mechanics, electricity, and magnetism.—S. Cummins.

*W 1906x must be taken concurrently with C 1406x, and W 1907y must be taken concurrently with either C 1407y or C 1607y.*

1 point.

*Laboratory 3 consecutive hours every other week to be chosen from M Tu W Th 1:10-4:00 or 4:10-7:00.*

*Introductory demonstration lecture 1 hour in alternate weeks.*

Section I Tu 3:10-4:00.

Section II W 4:10-5:00.

## **PHY C 1011x. General Physics III. Optics and Thermodynamics.**

Acoustical waves; nature of light; polarization; geometrical optics; interference and diffraction of light; heat; states of matter; gas laws, the laws of thermodynamics; kinetic theory of gases.—J. Halpern.

*Prerequisite: C 1006 or C 1406. Corequisite: Calculus III.*

3½ points. Lecture Tu Th 9:00-10:15.

*Laboratory 3 hours every other week. Times to be arranged after first class meeting.*

## **PHY C 1012y. General Physics IV. Modern Physics.**

Quantum effects; atomic structure and spectra; nuclear structure and reactions; fission and fusion; elementary particles.—S. Hartmann.

*Prerequisites: C 1011 and C 1007 or C 1407 or the equivalent.*

3½ points. Lecture Tu Th 9:00-10:15.

*Laboratory 3 hours every other week. Times to be arranged after first class meeting.*

## **PHY C 1607y, PHY C 1111x, PHY C 1112y. General Physics II-IV.**

Honors sections of C 1407y, C 1011x, C 1012y, respectively.—A. Blaer, S. Hartmann, J. Halpern.

*Prerequisites: See C 1407y, C 1011x, C 1012y; also, permission of the instructor.*

*C 1607y: 3 points; C 1111x and C 1112y: 3½ points.*

*C 1607y: Tu Th 11:00-12:15.*

*C 1111x: Tu Th 9:00-10:15.*

*C 1112y: Tu Th 9:00-10:15.*

## **PHY F 1006y, PHY F 1007x, PHY F 1011y, PHY F 1012x. General Physics I-IV.**

L. Camilleri, S. Smith.

3½ points. M W 4:40-5:55.

*Laboratory 3 hours every other week.*

*Hours to be arranged after first class meeting.*

## **PHY C 1021x, PHY C 1022y. General Physics.**

Mechanics, heat, electricity, magnetism, and light.—M. Shaevitz.

*Prerequisite: Advanced placement in mathematics or some knowledge of differential and integral calculus, and permission of the departmental representative. (A special placement meeting is held during Freshman Orientation.)*

4 points. Lecture Tu Th 11:00-12:15.

*Laboratory 3 hours to be arranged at the first class meeting.*



# Physics

## **PHY BC 3011x, PHY BC 3012y. Advanced History of Physics Laboratory.**

Experimental investigations in the historical development of physics studied by both laboratory and literary work. Students work individually or in collaboration with other students, choosing one or two examples (ranging from physics in the 17th to the 20th century), and study these thoroughly.—S. Cummins.

*Prerequisite: Good basic knowledge of physics, aptitude for laboratory work and individual initiative. Permission of the instructor required. Not offered in 1986-87.*  
2 points.

## **PHY W 3003x. Mechanics.**

Newton's laws of motion. Conservative forces and potential energy. Central forces. Planetary motion. Rutherford scattering. Free and forced oscillations. A brief introduction to Lagrange's equations and Hamilton's equations.—J. Shaham.

*Prerequisites: General physics and integral calculus.*  
3 points. M W 11:00-12:15.

## **PHY W 3007y. Electricity and Magnetism.**

Electrostatics and magnetostatics. Laplace's equation and boundary-value problems. Multipole expansions. Dielectric and magnetic materials. Faraday's law. AC circuits. Maxwell's equations. Lorentz covariance and special relativity.—W. Lee.

*Prerequisites: C 1007, C 1407 or the equivalent, and differential and integral calculus.*  
3 points. M W 9:35-10:50.

## **PHY W 3008x. Electromagnetic Waves and Optics.**

Maxwell's equations and electromagnetic potentials. The wave equation. Propagation of plane waves. Reflection and refraction. Geometrical optics. Transmission lines, wave guides, and resonant cavities. Radiation. Interference of waves. Diffraction.—W. Lee.

*Prerequisite: W 3007.*  
3 points. M W 9:35-10:50.

## **PHY W 3021x. Quantum Physics.**

Wave-particle duality and the Uncertainty Principle. Order-of-magnitude estimates in atomic physics. Basic principles of the quantum theory. Energy levels in one-dimensional potential wells. The harmonic oscillator, photons, and phonons. Reflection and transmission by one-dimensional potential

barriers. Introduction to atomic and molecular physics. Electron spin resonance. Nuclear magnetic resonance.—S. Nagamiya.  
*Prerequisite: C 1012 or C 1022 or the equivalent.*

3 points. Tu Th 9:00-10:15.

## **PHY W 3022y. Statistical Physics.**

Thermodynamics, kinetic theory, and statistical mechanics presented from a unified point of view. Classical and quantum statistics. The ideal gas. Black-body radiation. Liquid helium and superfluidity. Introduction to solid-state physics. Properties of metals, semiconductors, and insulators. Transistors.—M. Ruderman.

*Prerequisite: W 3021x.*  
3 points. Tu Th 9:00-10:15.

## **PHY W 3072y. Seminar in Current Research Problems.**

Detailed study of a selected field of active research in physics; motivation, techniques, and results obtained to the present, as well as the difficulties and unsolved problems.—R. Novick.

*Permission of the department representative required. Open only to senior physics majors.*  
2 points. Th 4:10-5:25.

## **PHY W 3081x, PHY W 3081y. Intermediate Laboratory Work.**

The laboratory has available 14 individual experiments, of which two are required for 1½ points. Each experiment is chosen by the student in consultation with the instructor. Registration in each section is limited by the laboratory capacity. Experiments (classical and modern) cover electricity, optics, and atomic and nuclear physics topics.—A. Sachs, M. May, P. Franzini.

*For junior and senior physics majors. Other majors require the instructor's permission. May be repeated for credit by performing different experiments.*

1½ points. Hours to be arranged.

## **PHY W 3083x, PHY W 3083y. Electronics Laboratory.**

Experiments in solid state electronics, with introductory lectures.—P. Franzini, G. Tzanakos.

*Permission of the instructor required.*  
*Corequisite: W 3003 or W 3007. Registration is limited to the capacity of the laboratory.*  
2 points. M W 1:00-4:00.

# Physics

**PHY W 3900x, PHY W 3900y. Supervised Individual Research.**—Staff.  
*3 or 6 points.*

**PHY G 4003y. Lagrangian Mechanics.**  
Lagrange's formulation of mechanics. The calculus of variations and the action principle. Hamilton's formulation of mechanics. Applications to rigid body motion and normal modes.—J. Shaham.  
*Prerequisites: W 3003 or the equivalent, and differential and integral calculus.*  
*3 points. Tu Th 4:00-5:15.*

**PHY G 4021x. Quantum Mechanics.**  
The formulation of quantum mechanics in terms of state vectors and linear operators. Three-dimensional spherically-symmetric potentials. The theory of angular momentum and spin. Identical particles and the exclusion principle. Methods of approximation. Multi-electron atoms.—F. Sciulli.  
*Prerequisite: W 3021.*  
*3 points. Tu Th 10:35-11:50.*

**PHY G 4022y. The Physics of Atoms, Solids, Nuclei, and Particles.**  
Time-independent and time-dependent perturbation theory. Scattering theory. Selected phenomena from each of atomic physics, solid-state physics, and elementary particle physics will be described and then interpreted using quantum mechanical models.—G. Feinberg.  
*Prerequisite: G 4021.*  
*3 points. Tu Th 10:35-11:50.*

## ASTRONOMY COURSES

For description see the Columbia College Bulletin.

**AST C 1103x. Contents of the Universe.**  
J. Patterson.  
*4 points. Lecture Tu Th 1:10-2:25.*  
*Laboratory hours to be arranged.*

**AST C 1104y. Topics in Cosmology.**  
J. Patterson.  
*4 points. Lecture Tu Th 1:10-2:25.*  
*Laboratory hours to be arranged.*

**AST C 1203x. Introduction to Astrophysics.**  
Instructor to be announced.  
*3 points. M W 11:00-12:15.*

**AST C 3102y. Planetary Dynamics and Physics of the Solar System.**  
Instructor to be announced.  
*3 points. M W 11:00-12:15.*

**AST C 3997x, AST C 3998y. Seminar and Research Course.**  
Staff.  
*3 points. Hours to be arranged.*

**AST W 3301y. Black Holes.**  
Instructor to be announced.  
*3 points. Tu Th 2:40-3:55.*

**AST W 3302y. General Relativity, Cosmology, and Black Holes.**  
Instructor to be announced.  
*Not offered in 1986-87.*  
*3 points.*

**AST G 4201x. Basic Astronomical Data.**  
I. Epstein.  
*3 points. Tu Th 1:10-2:25.*



# Political Science

Office: 417 Lehman Hall

Telephone: 280-8422, 2159

## Professors

Demetrios Caraley (Chairman), Dennis Dalton, Peter Juviler, Richard M. Pious

## Assistant Professors

Leslie Calman,<sup>2</sup> Barbara Ferman, Ester Fuchs, Thomas Gais, Debra Miller, Kathryn Yatrakis<sup>3</sup>

## Lecturers

Flora Davidson, Nicole Fermon, Kathryn Rodgers, Richard Storatz

Other officers of the University offering courses listed below:

## Professors

Thomas P. Bernstein, Seweryn Bialer, Douglas A. Chalmers,<sup>3</sup> Gerald L. Curtis,<sup>1</sup> Julian H. Franklin, Charles V. Hamilton, Roger Hilsman, Robert Jervis,<sup>2</sup> Andrew Nathan,<sup>3</sup> Joseph Rothschild,<sup>3</sup> John Gerard Ruggie, Giovanni Sartori, Warner R. Schilling, Alan F. Westin

## Associate Professors

Lisa Anderson, John Conybeare, Ethel Klein

## Assistant Professors

Robert Amdur, Thomas Callaghy,<sup>3</sup> Harvey Goldman, Gail Gerhart, Istvan Hont, Helen Milner, Robert Shapiro, Eric Smith, Jack Snyder<sup>1</sup>

<sup>1</sup>Absent on leave, Autumn Term

<sup>2</sup>Absent on leave, Spring Term

<sup>3</sup>Absent on leave, 1986-87

The purpose of the study of political science is to develop understanding of the basic political institutions and processes in human society. This understanding involves analysis and evaluation of political systems and public policies in the context of the challenges they face and the changes they undergo. The major is designed to equip the student to play an effective role as citizen in a democratic political order, to participate more actively in political life as public or party official, civil servant, lawyer, or political commentator, or to undertake graduate training in political science in preparation for a career in college teaching. Students interested in public service careers should inquire about the five-year joint degree program with the Columbia Graduate Program in Public Policy and Administration of the School of International and Public Affairs.

## REQUIREMENTS FOR THE MAJOR

A student majoring in Political Science is required to take a minimum of nine semester courses from the department's listed offerings, including:

A. Political Science BC 3001

*Dynamics of American Politics*

B. One of the following courses:

Political Science V 3505

*Comparative Politics*

Political Science V 3611

*International Politics*

Political Science B 3013, BC 3014

*Political Theory*

C. Two colloquia or other courses having a research paper from among those courses designated by an asterisk (\*); and

D. Two semesters of research seminar for the thesis (see below).

In order to have the opportunity for independent specialized work in depth, and to explore more fully the techniques of scholarly investigation, *both majors and concentrators are required to write a senior essay* as part of the work for the required two-semester research seminar (either Political Science BC 3761-BC 3762, *Research Seminar*, or V 3711-V3712, *Research Seminar in American Politics*).

# Political Science

The department's requirements are flexibly drawn to permit a major, in consultation with her adviser, to plan an overall program that, while providing some background in various areas of government and politics, can place special emphasis on such particular interests as the American political system (including its urban subsystem), foreign political systems, international relations, or political theory.

A student majoring in Urban Affairs with a concentration in Political Science is required to take a minimum of six semester courses, including:

Political Science BC 3001	<i>Dynamics of American Politics</i>
Political Science V 3313	<i>American Urban Politics</i>
Two from the following courses:	
Political Science BC 3322	<i>The American Congress</i>
Political Science BC 3326	<i>Colloquium on Civil Rights and Liberties</i>
Political Science BC 3327	<i>Colloquium on the Content of American Politics</i>
Political Science BC 3535	<i>Colloquium-Workshop in Urban Administration and Management</i>
Political Science V 3306	<i>Political Economy of Cities</i>
Political Science G 8202	<i>Colloquium on Congress and Policymaking</i>

Two semesters of research seminar for the thesis.

## REQUIREMENTS FOR THE MINOR

A student minoring in Political Science is required to take a minimum of five semester courses, including Political Science BC 3001.

## COURSES OF INSTRUCTION

### GENERAL COURSES

Courses listed under this heading may be taken without previous study of political science.

#### **POS BC 3001x, POS BC 3001y. Dynamics of American Politics.**

Examination of the dynamics of the American political system at the national level including political participation, elections, political parties and national political institutions: the Presidency, the Congress and the Judiciary.—Staff.

*Sign-up sheets for sections are posted outside 408 Lehman.*

*3 points.*

*Credit is not granted for both this course and C 3305.*

*x: Section I M W 11:00-12:15. R. Pious.*

*Section II M W 2:40-3:55. x, y: E. Fuchs.*

*Section III Tu Th 9:10-10:25. T.K. Gais.*

*y: M W 11:00-12:15. R. Pious. V/S*

#### **POS V 3505x, POS V 3505y. Introduction to Comparative Politics.**

An introduction to major issues and theories in comparative politics.

*3 points.*

*x: M W 4:10-5:25. Instructor to be announced.*

*y: Tu Th 10:35-11:50. P. Juviler. V/S*

#### **POS W 4311x. American Parties and Elections.**

The changing role of political parties and elections in the American political system. The historical development of party conflict; the structure of party organization at the local and national levels; the roles of party and the media during presidential elections; who votes and why; and the future of American political parties.—E. Fuchs.

*3 points. M W 11:00-12:15. V/S*

#### **POS BC 3007x. Modern Political Movements.**

Dynamics of movement politics in the twentieth century. Factual and moral analysis; case studies of Bolshevism, Indian nationalism, Nazism, and the women's movement.—L. Calman.

*3 points. Tu Th 10:35-11:50. V/S*

#### **POS V 3313y. American Urban Politics.**

Patterns of government and politics in America's large cities and suburbs. Urban socio-economic environment, influence of party leaders, local officials, social and economic notables, racial, ethnic and other interest groups, press, the general public, and federal and state governments; impact of urban government on ghetto and other urban problems.—B. Ferman.

*3 points. M W 2:40-3:55. V/S*



# Political Science

## **POS V 3611x, POS V 3611y. International Politics.**

Setting and dynamics of global politics; application of theories of international relations to selected historical and contemporary problems.

3 points.

x, y: Section I M W 2:40-3:55. R. Storatz.

x, y: Section II Tu Th 6:10-7:25. F. Kratochwil.  
V/S

## **POS BC 3012y. The United Nations in International Politics.**

Role of international organizations in world politics. Issues focused on include arms control and disarmament, nuclear proliferation, and human rights as well as international trade and multinational corporations. Experiences of the League of Nations, the United Nations, the European Community, and other contemporary international and regional organizations are considered.—R. Storatz.

3 points. M W 2:40-3:55. V/S

## **POS BC 3013x, POS BC 3014y. Political Theory.**

Major texts of political theory from Plato to the present. Emphasis on comparison of basic concepts such as those of human nature and the ideal society, freedom and authority, equality and leadership, methods of creating change.—D. Dalton.

*Note: 3013x is not a prerequisite for 3014y.*

3 points.

x, y: Section I Tu Th 2:40-3:55.

x, y: Section II M W 2:40-3:55. V/S

## **\*POS BC 3345y. Introduction to Statistical Analysis of Politics and Policy.**

Use of the microcomputer, including Lotus spreadsheets, in analysis of problems in the political process and public policy; practical applications in statistical analysis.—D. Caraley.

*Satisfies college-wide Quantitative Reasoning requirement. Colloquium credit for Political Science majors.*

*Prerequisite: BC 3001 or W 3305 and permission of the instructor.*

3 points. Tu Th 10:35-11:50. V/S

## **SPECIALIZED COURSES**

### **AMERICAN GOVERNMENT AND POLITICS**

#### **POS V 3316x. The American Presidency.**

Growth of presidential power, creation and

use of the institutionalized presidency, presidential-congressional and presidential-bureaucratic relationships, and the presidency and the national security apparatus.—R. Pious.  
*Prerequisite: BC 3001 or the equivalent.*

3 points. M W 2:40-3:55. V/S

#### **POS BC 3322y. The American Congress.**

Dynamics, organization, and policy making processes of the American Congress. Relationship of legislators to constituents, lobbyists, bureaucrats, the President, and one another.—T. Gais.

*Prerequisite: BC 3001 or the equivalent.*

3 points. Tu Th 10:35-11:50. V/S

#### **POS BC 3325x. The Judicial Process.**

Introduction to the American judicial system; origins and strategies of litigation, factors which influence the hearing of cases by the Supreme Court, and controversies over judicial review and the commerce clause.—Instructor to be announced.

*Prerequisite: BC 3001 or a course in American history.*

*Not open to students who have taken W 3399.*

3 points. Not offered in 1986-87. V/S

#### **\*POS BC 3326y. Colloquium on Civil Rights and Liberties.**

The uses and limitations of the judicial process to protect individual rights and affect public policy. Readings, discussion, and reports on selected topics including libel and the press, criminal procedure, equal protection, and ethics in government.—K. Rodgers.

*Prerequisite: BC 3001 or equivalent and permission of instructor.*

4 points. W 4:10-6:00. V/S

#### **\*POS BC 3333x. Colloquium on Policy Analysis.**

Theoretical aspects and practical applications of policy analysis. Topics include the policy-making process, and the roles and tools of policy analysis. Actual case studies from domestic policy will be used. Students will also simulate case studies for analytical purposes.—B. Ferman.

*Prerequisite: BC 3001 or equivalent and permission of instructor.*

*Enrollment limited to 18 students.*

4 points. W 2:10-4:00. V/S

#### **POS W 3399x. The Supreme Court and American Politics.**

Role of the judiciary and constitutional law

# Political Science

in American politics; U.S. Supreme Court, civil liberties, civil rights, federalism, and economic and social regulations. Students write case studies of recent Supreme Court decisions.—A. Westin.

*Prerequisite:* BC 3001 and junior standing.

*Not open to students who have taken BC 3325.*

3 points. M W 11:00-12:15. V/S

## **POS W 3400y. Law and Politics of Civil Liberties.**

A survey of existing law on civil liberties and rights, followed by discussion of issues of democratic theory, the role of groups in bringing test cases, and the dynamics of civil liberties litigation and conflict, covering topics such as political surveillance, racial equality, church-state issues, consumer rights, women's rights, and other issues.—A. Westin.

*Prerequisite:* Open only to juniors and seniors who have had a course in American government or constitutional law. *Not open to students who have taken BC 3326.*

3 points. M W 11:00-12:15. V/S

## **POS V 3328x. Women and American Politics.**

Analysis of changes and continuities in the roles of women as they have been involved in and affected by American politics and public policy.—E. Klein.

*Prerequisite:* BC 3001, W 3305, or permission of the instructor.

3 points. Tu Th 2:40-3:55. V/S

## **\*POS BC 3327x. Colloquium on the Content of American Politics.**

Readings, discussions and reports on changing cleavages and policy issues in American national politics with special attention to economic and social welfare policies.—T. Gais.

*Prerequisite:* BC 3001 or equivalent and permission of the instructor.

4 points. W 2:10-4:00. V/S

## **\*POS BC 3331y. Colloquium on American Political Decisionmaking.**

Readings on decisionmaking, policy analysis and the political setting of the administrative process. Students will simulate an Ad Hoc Cabinet Committee assigned to prepare a presidential program to deal with aspects of the foreign aid program involving hunger and malnutrition.—R. Pious.

4 points. W 2:10-4:00. V/S

## **\*Urban Affairs UAF BC 3535x. Colloquium in Urban Administration and Management.**

Processes of administration and management in urban organizations. Executive leadership, decisionmaking, bureaucracy, budgeting and personnel.—K. Yatrakis.

*Prerequisite:* BC 3001 or V 3313 or the equivalent.

*Enrollment limited to ca. 20 students.*

4 points. Tu 2:10-4:00.

## **Urban Affairs UAF 3537x. Workshop in Urban Administration and Management.**

Resources of New York City utilized to gain first-hand experience of administrative and managerial processes through unpaid internships of 8-10 hours per week.—K. Yatrakis.

*Corequisite:* Urban Affairs BC 3535.

2 points. Biweekly meeting to be arranged.

## **POS G 4238x. Public Opinion and Voting Behavior.**

A survey of the theoretical and empirical literature on individual political behavior. The nature of measurement of political behavior. The nature of measurement of political attitudes, the distribution of knowledge and attitudes, ideology, party identification, socialization, participation, presidential and congressional voting and other topics will be discussed.—R. Shapiro.

*Prerequisite:* junior or senior standing and permission of the instructor.

3 points. W 4:10-6:00.

## **\*POS G 8202y. Colloquium on Congress and Policymaking.**

Role of Congress in national policymaking. Influence of committees, party leaderships, staffs, the President, interest groups, and constituencies; case studies of congressional policymaking.—D. Caraley.

*Prerequisites:* BC 3001, junior standing and permission of the instructor.

*Enrollment limited to 15 students.*

3 points. Not offered in 1986-87.

## **FOREIGN GOVERNMENTS AND POLITICS**

## **\*POS BC 3220x. Colloquium on Communism and Revolutionary Change.**

Nature, causes and consequences of revolution; approaches to revolution of the major types of workers' and peasants' revolutionism.—N. Fermon.

*Prerequisites:* V 3505, BC 3007, or BC 3221, or the equivalent. *Permission of the instructor required.*

4 points. Hours to be arranged. V/S



# Political Science

## **\*POS BC 3221x. Colloquium on Politics and Human Rights in the U.S.S.R.**

Soviet conceptions of governing authority and human rights; the interaction of government and citizens.—P. Juviler.

*Prerequisite:* V 3505 or BC 3007, or Soviet politics or history. Admission by application only, available in 408 Lehman.

4 points. Th 2:10-4:00.

V/S

## **\*POS BC 3424y. Colloquium on Asian Politics.**

Comparative analysis of national experiences and political ideas and political development in India and China.—L. Calman.

*Prerequisite:* V 3505 or permission of the instructor. Enrollment limited to 20 students.

Not offered in 1986-87.

4 points.

## **POS W 3502x. Political Change in the Third World.**

Impact of the world market, multinational corporations, and colonialism on non-Western societies. Political issues arising from social and economic changes; political choices facing peasants, intellectuals, and ethnic minorities; strategies to overcome underdevelopment, including revolution and reform, critical analysis of theories of modernization, dependency, and historical materialism.—G. Gerhart.

3 points. W F 11:00-12:50.

V/S

## **POS W 3018y. Authoritarianism and Democracy.**

Political regimes, the conditions of their emergence and the causes of their demise. Cases drawn particularly from the waves of fascism and military-authoritarianism in Europe and the rise and possible transformation of military regimes in Latin America.—P. K. Oldenburg.

3 points. Tu Th 2:40-3:55.

V/S

## **POS W 3522x. Communist Political Systems.**

Comparative study of Marxist-Leninist states with emphasis on the Soviet Union and China plus some attention to other cases. Analysis of revolutions, processes of societal transformation, patterns of rule, as well as problems of adaptation and reform.—T.P. Bernstein.

3 points. M W 6:10-7:25.

V/S

## **POS W 3530y. Political Participation and Democracy in Comparative Perspective.**

The comparative analysis of political parti-

cipation in states of different kinds (liberal democracies, socialist states, modernizing countries), including who participates, how and with what effect; and the study of diverse definitions and ideals of democracy.—J. Kreiger.

3 points. M 6:10-8:55.

V/S

## **POS W 3540x. Ethnicity and Politics.**

The impact of rising ethnonationalism (as defined by religious, linguistic, regional, racial, kinship, and related criteria) on intrastate and interstate politics; the relationship of ethnic stratification to socioeconomic stratification under various structural patterns and models—and the political dynamics generated thereby; the historical contingencies that facilitate the mobilization, exacerbation, or amelioration of ethnopoltical assertiveness and conflict; the role of political elites and counterelites in the management of these issues.—J. Rothschild.

3 points. M W 2:40-3:55.

V/S

## **POS G 4472x. Japanese Politics.**

Introduction to contemporary Japanese politics and major foreign policy issues; issues of concern in the analysis of Western democratic policies in the Japanese context.—G. Curtis.

*Prerequisite:* Comparative Politics.

3 points. M 2:10-4:00.

## **Italian-Political Science ISP G 4415y. Social and Political Institutions in Italy Today.**

Major Italian institutions; their operation in the Italian social and cultural structure.—F. Colombo.

3 points.

Th 4:10-6:00, and third hour for Italian-speaking students, to be arranged.

V/S

## **POS G 4487y. The Dynamics of Soviet Politics.**

Marxism-Leninism in Soviet politics; role of the Communist Party in Soviet government and society; problems of industrialization, stages of development and political change; balance of political forces and pressures in the Soviet state.—S. Bialer.

*Prerequisite:* Comparative Politics.

3 points. Tu 9:00-10:50.

## **POS G 4445x. Politics in the Middle East and North Africa.**

A comparative analysis of political organizations, institutions, and groups in a predominantly Muslim region mostly comprising

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states that are newly sovereign.—L. Anderson.  
*Prerequisite: Junior or senior standing and permission of the instructor.*  
3 points. W 2:10-4:00.

## **POS G 4471y. Chinese Politics.**

Selected aspects of contemporary Chinese politics, including the causes and character of the Chinese revolution, the transformation worked in Chinese society by the revolutionary government, political conflict, and the goals of government policies and the problems of carrying them out.—A. Nathan.

*Prerequisite: Junior or senior standing and permission of the instructor.*  
3 points. Th 2:10-4:00.

## **POS G 4420x. Politics in Advanced Capitalist Society.**

Critical analysis of Marxist approaches to advanced capitalism. The relationship of liberal democracy to capital accumulation and to political reproduction and class conflict. Historical and crossnational variations in ruling class coalitions and state policies in Western Europe and the U.S. The political significance of racial, sexual and class inequality. The crisis of the welfare state, current policy responses, and possible future alternatives.—M. Kesselman.

3 points. M 4:10-7:00. Third hour devoted to group discussion.

## **POS G 4496y. Contemporary African Politics.**

Nation-building in Black Africa: African socialism, the one-party system, and military intervention in politics. African international relations: neocolonialism, Pan Africanism, neutralism, and nonalignment. The African revolution.—G. Gerhart.

*Prerequisite: Junior or senior standing and permission of the instructor.*  
3 points. Tu Th 10:35-11:50.

## **POLITICAL THEORY**

### **\*POS BC 3416y. Colloquium on Personality and Politics.**

Readings, discussion, and research on the role of personality in shaping political behavior, with special attention to the impact of personality in political leaders.—F. Davidson.  
*Permission of the instructor required.*

*Enrollment limited to 16 students. Application form must be submitted to the instructor at the end of Autumn term for acceptance into the course.*  
4 points. Tu 2:10-4:00. V/S

### **\*POS BC 3423y. Colloquium on Nonviolence.**

Nature and dynamics of nonviolent action especially when directed at gaining political and social change. Focus on Mahatma Gandhi's theory and practice of nonviolence in South Africa and India, 1906-1947. Comparison of this example with other instances of nonviolent action in twentieth century America and Europe.—D. Dalton.

*Prerequisites: BC 3013x, BC 3013y, and BC 3007x.*

*Not offered in 1986-87.*

4 points.

V/S

### **POS BC 3433y. Colloquium on Concepts of Political Theory.**

Relationship between political theory and political science; selected theoretical concepts and problems within the context of classical and modern theorists, and their pertinence, utility, and limitations for their understanding of contemporary domestic and international politics.—N. Fermon.

*Permission of the instructor required.*

4 points. Th 2:10-4:00.

V/S

### **POS BC 3440y. Colloquium on Women in Western Political Thought.**

This course will examine the treatment of women in major traditions of Western political thought. Questions of women's "nature," their role in public life and in the private sphere will be explored. Primary sources will include Plato, Aristotle, Rousseau, Locke, Marx, and Engels.—L. Calman.

*Prerequisite: Permission of the instructor.*

*Not offered in 1986-87.*

4 points.

### **POS W 4638x. Marxism.**

Marx's social and political thought, revisionists and fundamental critics, and selected contemporary approaches to Marxist theory. Marx, Bernstein, Lenin, Sorel, Mannheim, Freud, Marcuse, Sartre, and others.—H. Goldman.

3 points. M W 11:00-12:15.

V/S

### **POS W 3411x. Foundations of Western Political Thought: From the Greek Polis to the Formation of the Modern State.**

Leading political theorists in their historical contexts: Plato, Aristotle, Polybius, Cicero, St. Augustine, St. Thomas, Machiavelli, Luther, Calvin, the Monarchomachs, and Bodin.—J.H. Franklin.

3 points. Tu Th 10:35-11:50.

V/S



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## **POS W 3412y. Modern Political Thought: From the Seventeenth Century to the Present.**

Analysis and discussion of the arguments of major political theories, and of the transformation of political theory in the 19th century. Topics include the theories of social contract, the character of liberalism and the role of property, the relation of freedom and equality in democratic society, the rise of capitalism and its analysis and critique. Among the authors considered are Hobbes, Locke, Rousseau, Burke, Tocqueville, Mill, Hegel, and Marx.—I. Hont.

3 points. Tu Th 10:35-11:50. V/S

## **POS W 3420x. Democratic Theory.**

The theory of democratic government; some major 19th- and 20th-century critics of democracy; and several problems in democratic thought, e.g. representation, civil liberties, the relationship between political and economic equality.—R. Amdur.

3 points. Hours to be arranged. V/S

## **\*POS W 3833x. Colloquium on Political Ideas.**

Selected problems in contemporary political philosophy.—I. Hont.

*Prerequisite:* BC 3013, BC 3014 or equivalent, and permission of the instructor.

4 points. Hours to be arranged. V/S

## **INTERNATIONAL RELATIONS AND FOREIGN POLICY**

### **\*POS BC 3118y. Colloquium on Problems in International Politics.**

Readings, discussions, and presentations on selected problems in international politics.—D. Miller.

*Prerequisite:* Course V 3611 and permission of the instructor.

4 points. Tu 2:10-4:00. V/S

### **POS BC 3410y. Colloquium on Human Rights and Foreign Policy.**

Issues in the universalization of human rights; reflection on the possible place of human rights promotion in the foreign policies and relations of sovereign states, in particular the United States, and recent changes in this regard, in the face of human rights violations.—P. Juviler.

*Prerequisites:* Permission of the instructor; junior standing.

*Enrollment is limited to 18 students.*  
4 points. Th 2:10-4:00.

## **POS V 3612y. International Politics II: Advanced Topics in International Politics.**

Selected topics in international relations. The content of the course varies from year to year, but topics generally considered include nationalism, imperialism, integration, arms race, deterrence, and world systematic change.—D. Larson.

*Prerequisite:* Course V 3611.

3 points. M W 11:00-12:15. V/S

## **POS C 3655x. American Strategies in World Politics.**

Major revolutions in American foreign policy; World Wars I and II, and the response to nuclear weapons.—W. Schilling.

*Prerequisite:* Junior standing.

*Not offered in 1986-87.*

3 points. V/S

## **POS W 3656y. The Politics of Policy-making in Defense and Foreign Affairs.**

Political process by which foreign and defense policy is made in the United States, including the roles of the President, Congress, State Department, CIA, the military, the press, interest groups, the attentive public, and the electorate; conceptual models of the politics of policymaking.—R. Hilsman.

*Prerequisite:* Junior standing.

3 points. M 4:10-6:00.

*Discussion hours to be arranged.* V/S

## **POS W 3616y. Approaches to World Order.**

Philosophical perspectives and the social, economic and political conditions underlying different approaches to world order.—S. Mendlovitz.

3 points. Tu Th 1:10-2:25.

V/S

## **POS W 3630x. The Politics of International Economic Relations.**

Introduction to the political and historical dimensions of the international economy. Political aspects of trade, monetary systems, foreign investment, aid, dependency, global interdependence.—J. Conybeare.

3 points. Tu Th 2:40-3:55.

V/S

# Political Science

## COURSES FOR MAJORS AND CONCENTRATORS ONLY

### **Political Science-Sociology PSS V 3994x-PSS V 3995y. New York Area Undergraduate Research Program.**

An ongoing program that develops a social research project from conceptualization to final report. Using New York City as a research laboratory, students choose different topics each year for study. Under the guidance of the faculty coordinator, students clarify basic theoretical issues related to the research problem; operationalize a series of empirical questions; collect evidence to test hypotheses; analyze the data using a variety of social science techniques; produce reports of basic findings. Students individually and in small groups learn many of the basic tools used by social scientists. Topic for 1986-87 is Economic Development and Public Policy.—B. Ferman.

*Prerequisite: Enrollment limited to 10-15 students, selected by application only to the instructor. Junior or senior standing is required. Participation is for two terms.*

*Note: Barnard Urban Affairs majors with a Political Science concentration have the option to use this course to satisfy the senior thesis requirement with the approval of the Political Science department.*

*4 points. Tu 10:00-11:50.*

### **POS G 4910x. Principles of Quantitative Political Research.**

Introduction to statistical analysis and data processing. Principles of statistical inference and the logic of hypothesis testing.—R. Shapiro.

*A written report is required.*

*3 points. Tu Th 10:35-11:50.*

### **POS G 4911y. Analysis of Political Data.**

Applications of multivariate statistical techniques to political data. Practical questions of research and data processing.—R. Shapiro.

*Prerequisite: Course G 4910 or permission of the instructor. A written report is required.*

*3 points. Tu Th 10:35-11:50.*

## SENIOR SEMINARS

Admission to particular sections of the senior seminar is limited. During Spring preregistration students must obtain departmental approval for the section desired in the senior seminar.

### **POS V 3711x-POS V 3712y. Research Seminar in American Politics.**

Discussions, conferences, and the writing of a senior essay on selected topics of American public policy and politics.—Staff.

*4 points.*

*Section I Tu 4:10-6:00. D. Caraley.*

*Section II W 4:10-6:00. E. Fuchs.*

*Section III x: Th 4:10-6:00. R. W. Pearson.  
y: Th 4:10-6:00. E. Klein.*

*Section IV x: Th 11:00-12:50. R. W. Pearson.  
y: Th 4:10-6:00. R. Hilsman.*

*Section V Th 4:10-6:00. T. Gais.*

### **POS BC 3761x-POS BC 3762y. Research Seminar.**

Discussion and conferences on the researching and writing of the senior essay.—Staff.

*4 points.*

*Section I Th 4:10-6:00. P. Juviler.*

*Section II x: Tu 4:10-6:00. L. Calman.  
y: Tu 4:10-6:00. D. Dalton.*

*Section III Tu 4:10-6:00. D. Miller.*

*Section IV Th 4:10-6:00. Instructors to be announced.*

## GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the bulletins of the Graduate School of Arts and Sciences, the Graduate Program in Public Affairs and Administration, and School of International Affairs.



# Psychology

Office: 415 Milbank Hall

Telephone: 280-2069

## Professors

Lila Ghent Braine, Rae Silver

## Visiting Professor

Thomas Perera

## Associate Professors

Peter Balsam (Chairman), Barbara S. Schmitter

## Adjunct Associate Professors

Jacqueline Fleming, Wendy McKenna

## Assistant Professors

Lawrence Aber,<sup>1</sup> Julie Blackman, Jan Rabinowitz, Robert Remez, Tracey A. Revenson, Carolin Showers, John Vitkus, Christina L. Williams<sup>1</sup>

## Adjunct Assistant Professors

Howard Andrews, William Fifer, Robin Garfinkel, Marsha Levy-Warren, Sandra F. Stingle

<sup>1</sup>Absent on leave, 1986-87

Psychology is the study of behavior and experience, and therefore of a diversity of phenomena, from love to aggression, from the first babblings of infants to creative intellectual behavior, from understanding sexual behavior to the mechanisms of taste. Faculty members in Psychology have a wide range of research interests, including social and cognitive development, memory, sexual and parental behavior, animal learning, health, and intimate violence.

Common to all areas of psychology is a concern with adequate and appropriate methodology. The student will be exposed, therefore, to many psychological facts and to the methods of their discovery through lecture, laboratory, field courses, and various other offerings.

Opportunities are available for supervised research, teaching, and field experiences. Independent study and the Senior Seminar involve participation in research with a faculty member. The Toddler Center and a course in Field Work in Psychological Services provide a different sort of first-hand contact with the study of psychology.

The department sponsors a Psychology Club.

Psychology as a major is a good preparation for many careers. Many majors enter graduate school in psychology, neurosciences, education and professional schools, including medical, law, and business schools. There is no set sequence for a major with a given career goal, but the department recommends a balance between courses that are directly preparatory and exposure to material the student may never encounter formally again.

Students should preregister for courses in April and November for the following semester. Preregistration information is available in Room 415 Milbank.

A laboratory fee of \$15 is charged for each laboratory course: BC 1105, BC 1108, BC 1117, BC 1127, BC 1130, BC 1136, and BC 1156.

Students interested in Biopsychology should consult page 87.

## REQUIREMENTS FOR THE MAJOR

The student majoring in Psychology is exposed to the diversity of the discipline through the required core courses and the selection of appropriate electives.

Eight courses in psychology (of which two must be lab courses) and three courses in

# Psychology

related disciplines are required for the major. Six of the eight required psychology courses must be taken at Barnard College. Statistics cannot be taken during the summer.

Psychology BC 1001

*Introduction to Psychology* (prerequisite for further psychology courses)

Psychology BC 1609

*Statistics* (preferably in the sophomore year)

One course chosen from:

Psychology BC 1105

*Psychology of Learning*

Psychology BC 1130 or BC 1132

*Human Learning and Memory*

One course chosen from:

Psychology BC 1125

*Psychology of Personality*

Psychology BC 1136 or BC 1138

*Social Psychology*

Psychology BC 3141

*Abnormal Psychology*

In choosing her four electives, a student should try to achieve a balance in her training by taking at least one course from each of the following categories:

Developmental, Social, Clinical: BC 1125, BC 1127 or BC 1129, BC 1136 or BC 1138, BC 3141, BC 3143, BC 3151, BC 3158, BC 3161, BC 3371, BC 3372, BC 3473

Methodology and Research: BC 1156, BC 3591-BC 3592, BC 3599, W 4107

Physiological, Perception, Learning: BC 1105, BC 1108 or BC 1110, BC 1117 or BC 1119, BC 1130 or BC 1132, BC 3154, BC 3160, BC 3164, BC 3169, BC 3375

A maximum of two of the following courses may count towards the major: BC 3465, BC 3466, BC 3591, BC 3592, BC 3498, and BC 3599.

The three required courses in related disciplines should be distributed as follows: a one-year laboratory course sequence in either biology, chemistry, or physics; a course from one of the cognate disciplines: anthropology, linguistics, sociology, philosophy, economics, computer science.

The eight required psychology courses must be taken for a letter grade; the grade must be C- or better.

The major examination consists of either the Graduate Record Examination in Psychology or satisfactory completion of Psychology BC 3591-BC 3592, *Senior Research Seminar*.

When in doubt, the student should consult with her major adviser, whom she should select when she decides to major in psychology, and who will be her chief academic adviser. The student may select the appropriate adviser in consultation with the administrative assistant or chairman.

## REQUIREMENTS FOR THE MINOR

Five courses are required for the minor, including Psychology BC 1001, BC 1609 and one laboratory course. Two additional electives, excluding Psychology BC 3465-BC 3466, BC 3591-BC 3592, BC 3498, and BC 3599, are required. These electives may be selected from the Psychology Department course offerings. Three of the five psychology courses must be taken at Barnard.

## COURSES OF INSTRUCTION

### INTRODUCTORY COURSE

**PSY BC 1001x, PSY BC 1001y. Introduction to Psychology.**

Introduction to the chief facts, principles, and problems of human and animal behavior, through systematic study of a text, lectures,

exercises, reading in special fields, and brief participation in a current investigation. (An alternative to participation can be arranged at the student's request.)—Staff.

*This course is prerequisite for all other Psychology courses. Enrollment is limited to 45 students per section.*



# Psychology

3 points.

x: Section I M W F 10:00. Instructor to be announced.

Section II M W F 11:00. Instructor to be announced.

Section III Tu Th 9:10-10:25. Instructor to be announced.

Section IV Tu Th 10:35-11:50. Instructor to be announced.

Section V Tu Th 1:10-2:25. Instructor to be announced.

Section VI Tu Th 1:10-2:25. Instructor to be announced.

y: Section I M W F 11:00. Instructor to be announced.

Section II M W 2:40-3:55. W. McKenna.

Section III Tu Th 9:10-10:25. Instructor to be announced.

Section IV Tu Th 10:35-11:50. P. Balsam.

Section V Tu Th 1:10-2:25. Instructor to be announced.

## LOWER LEVEL COURSES

### PSY BC 1105x. Psychology of Learning.

Basic methods, results and theory in experimental analysis of behavior. Operant and classical conditioning, and application of these procedures to analysis of behavior in a variety of species, including humans. Laboratory consists primarily of experiments using rats as subjects.—P. Balsam and assistants.

*Prerequisite:* BC 1001. Enrollment limited to 60 students. Preregistration.

4½ points.

Lecture Tu Th 10:35-11:50. Laboratory W Th F 1:00-4:00.

Laboratory fee \$15.

### PSY BC 1108x. Perception.

Introduction to problems, methods, and research in perception. Discussion of psychological studies of seeing, hearing, touching, tasting, and smelling. In the laboratory, students conduct experiments and learn to report their findings.—R. Remez and assistants.

*Prerequisite:* BC 1001 or permission of the instructor. Enrollment limited to 40 students. Preregistration.

4½ points.

Lecture M W 11:00-12:15.

Laboratory M or Tu 1:00-4:00.

Laboratory fee \$15.

### PSY BC 1110x. Perception.

Same as BC 1108, but without the laboratory.—R. Remez.

*Prerequisite:* BC 1001 or permission of the instructor. Enrollment limited to 15 students.

3 points. M W 11:00-12:15.

### PSY BC 1117x. Physiological Psychology.

An introduction to the physiological bases of behavior: organization, connections and functions of the nervous system; neural bases of sensory processing, motor control, feeding, drinking, sexual behavior, sleep, aggression, reward, learning and memory.—T. Perera and assistants.

*Prerequisite:* BC 1001. Enrollment limited to 40 students. Preregistration.

4½ points.

Lecture Tu Th 1:10-2:25.

Laboratory W 2:30-5:30 or Th 2:30-5:50.

Laboratory fee \$15.

### PSY BC 1119x. Physiological Psychology.

Same as BC 1117x, but without laboratory.—C. Williams.

*Prerequisite:* BC 1001. Enrollment limited to 20 students.

3 points. M W 1:10-2:25.

### PSY BC 1125x. Psychology of Personality.

Survey of the area, major theorists; research utilizing personality variables; implicit and explicit personality theories of various types of people; articulation of the dialectic between explanations as a function of personality and explanations as a function of situational determinants.—C. Showers.

*Prerequisite:* BC 1001 or permission of the instructor.

3 points. M W F 10:00.

### PSY BC 1127x, PSY BC 1127y.

#### Developmental Psychology.

Cognitive, linguistic, perceptual, motor, social, affective, and personality development from infancy to adolescence. Laboratory offers an opportunity for direct contact with children; major areas of research at each level of development are covered.—x: L. Braine and assistants; y: Instructor to be announced.

*Prerequisite:* BC 1001 or permission of the instructor. Enrollment limited to 48 students.

4½ points.

Lecture M W 1:10-2:25.

Laboratory M or Tu 2:30-5:30.

Laboratory fee \$15.

### PSY BC 1129x, PSY BC 1129y.

#### Developmental Psychology.

Same as BC 1127, but without laboratory.—x: L. Braine; y: Instructor to be announced.

# Psychology

*Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 20 students.*  
3 points. M W 1:10-2:25.

## **PSY BC 1130y. Human Learning and Memory.**

Survey of contemporary theories of human memory with an emphasis on a comparison between structural and process models. Topics will include primary memory, secondary memory, levels of processing, organization and encoding specificity. Special topics will include eyewitness testimony, metamemory, development of memory, and the effects of alcohol and other drugs on memory. The laboratory consists of experiments related to these topics.—J. Rabinowitz and assistants.  
*Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 48 students.*  
*Preregistration.*

4½ points.

Lecture M W 11:00-12:15.

Laboratory M 2:30-5:30 or Tu 1:00-4:00.

Laboratory fee \$15.

## **PSY BC 1132y. Human Learning and Memory.**

Same as BC 1130, but without laboratory.—J. Rabinowitz.

*Prerequisite: BC 1001 or permission of the instructor.*

3 points. M W 11:00-12:15.

## **PSY BC 1134x. Educational Psychology.**

Major theories and issues in human psychological development fundamental to education. The course will examine the implications of psychological knowledge for use in classroom teaching. Students have the opportunity to observe elementary and secondary school classes.—Instructor to be announced.

*Prerequisite: BC 1001 or permission of the instructor.*

3 points. Tu Th 9:10-10:25.

## **PSY BC 1136. Social Psychology.**

Human behavior considered in terms of interpersonal activities; person perception, attitude change, interpersonal attraction, aggression, altruism, group dynamics, social exchange; contributions of laboratory and field research.—C. Showers and assistants.

*Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 50 students.*

*Preregistration.*

4½ points.

Lecture Tu Th 9:10-10:25.

Laboratory W or Th 1:00-4:00.

Laboratory fee \$15.

## **PSY BC 1138y. Social Psychology.**

Same as BC 1136, but without laboratory.—C. Showers.

*Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 25 students.*

3 points. Tu Th 9:10-10:25.

## **PSY BC 1156y. Psychological Measurement.**

In-depth treatment of measurement issues (reliability, validity, item analysis) followed by application of these constructs to psychological tests and measures. Critique and evaluation measures in the domains of intelligence, personality, environmental and clinical assessment. Lab involves student-conducted survey research on a social or health psychology topic (e.g., smoking, loneliness).—T. Revenson and assistant.

*Prerequisite: BC 1001.*

4½ points.

Lecture Tu Th 10:35-11:50.

Laboratory Th 1:00-4:00.

Laboratory fee \$15.

## **PSY BC 1157y. Psychological Measurement.**

Same as BC 1156y but without the laboratory.—T. Revenson.

*Prerequisite: BC 1011. Enrollment limited to 20 students.*

3 points. Tu Th 10:35-11:50.

## **PSY BC 1609x, PSY BC 1609y. Statistics.**

Introduction to statistics and its applications to psychological research. Basic theory, conceptual underpinnings, and common statistics. Recitation devoted to discussion of weekly problem assignments.

*Prerequisite: BC 1001 or permission of the instructors. Enrollment limited to 35 students per section.*

4 points.

x: Section I M W 2:40-3:55. R. Garfinkel.

Recitation Tu or W 10:00-12:00.

Section II Tu Th 2:40-3:55. J. Rabinowitz.

Recitation M 4:00-6:00 or Tu 11:00-1:00.

y: Section I M W 1:10-2:25. R. Garfinkel.

Recitation Tu or W 10:00-12:00.

Section II Tu Th 4:10-5:25. H. Andrews.

Recitation M or W 4:10-6:00.



# Psychology

## MIDDLE LEVEL COURSES

### **PSY BC 3141x, PSY BC 3141y. Abnormal Psychology.**

Introduction to the study of deviant and maladaptive behaviors such as childhood disorders, depression, schizophrenia and mental retardation, focusing on scientific, philosophical and socio-cultural issues in the study of abnormal behavior and the relationship between diagnosis and treatment strategy.—J. Vitkus.

*Prerequisite:* BC 1001 or permission of the instructor.

3 points.

*x:* Tu Th 9:10-10:25.

*y:* Tu Th 10:35-11:50.

### **PSY BC 3143x. Health Psychology.**

An overview of social-psychological theory and research in health, illness and health care. Topics covered include: the placebo effect; pain; Type A coronary-prone behavior; personality and the development of illness; coping behavior; the hospital environment; patient-physician communication; adherence to treatment regimens; and behavioral medicine.—T. Revenson.

*Prerequisite:* BC 1001.

3 points. Tu Th 10:35-11:50.

### **PSY BC 3151x. Organizational Psychology.**

Introduction to behavior of individuals and small groups in work organizations. Recent theory and research emphasizing both content and research methodology. Motivation and performance, attitudes and job satisfaction, power, influence and authority, leadership, cooperation and conflict, decision-making, and communications.—Instructor to be announced.

*Prerequisite:* BC 1001. Enrollment limited to 45 students.

3 points. Tu Th 1:10-2:25.

### **PSY BC 3152y. Psychological Aspects of Human Sexuality.**

A survey and critical evaluation of research investigating psychological, biological and social factors in human sexual behavior. Topics will include sexuality throughout the life span, sexual dysfunction and cultural attitudes towards sexuality.—W. McKenna.

*Prerequisite:* BC 1001. Enrollment limited to 30 students. Preference given to seniors. Preregistration.

3 points. M W 1:10-2:25.

### **PSY BC 3154x. Hormones and Reproductive Behavior.**

Biological basis of parental and sexual behavior from a comparative perspective. Complex relations among genetic, hormonal, environmental, and experiential factors in mediating sexual, parental, emotional, and feeding behavior. Aspects of biology and physiology necessary to understand those behavioral processes are covered in class and are **not** prerequisites.—R. Silver.

*Prerequisite:* BC 1001 or Biology BC 1101-BC 1102.

*Enrollment limited to 45 students.*

*Not offered in 1986-87.*

3 points.

### **PSY BC 3158x. Human Motivation.**

Empirical study of human motivation with emphasis on motives in fantasy, action and society. Surveys different approaches to the study of human motives and their scientific status. Discusses the development of motives in childhood, their behavioral and societal manifestations. Particular emphasis is given to need for achievement, need for power, need for affiliation, fear of failure, fear of success.—J. Fleming.

*Prerequisite:* BC 1001. Alternate years. Not offered in 1986-87.

3 points.

### **PSY BC 3160x. Cognitive Psychology.**

Selected topics illustrating the methods, findings, and theories of contemporary cognitive psychology. Topics include attention, pattern recognition, imagery, categorization, problem solving, reasoning and language.—J. Rabinowitz.

*Prerequisite:* BC 1001. Enrollment limited to 20 students.

*Alternate years. Offered in 1986-87.*

3 points. M W 2:40-3:55.

## UPPER LEVEL COURSES

### **PSY BC 3161x. Introduction to the Psychotherapeutic Process.**

Exploration of concepts intrinsic to the psychotherapeutic process: transference, countertransference, resistance, interpretation, defense analysis. Focus of assessment, choice of treatment, psychoanalysis/psychotherapy, major treatment modalities (e.g., behavioral, humanistic, interpersonal), the analytic attitude, and therapeutic change. M. Levy-Warren.

# Psychology

*Prerequisites: BC 1001, and any two of the following courses: Personality, Abnormal Psychology, Developmental Psychology, Human Motivation, or permission of instructor.*  
3 points. M W 1:10-2:25.

## **PSY BC 3164y. Perception and Language.**

Psychological investigations of spoken communication from listener's perspective. Topics include perception of the sounds of speech and the apprehension of meaning from words and utterances; the perceptual basis for rhyme and rhythm in speech; and the natural history of vocal communication.  
—R. Remez.

*Prerequisites: BC 1001 and one of the following: BC 1105, BC 1108, BC 1117, BC 1127, BC 1130 or equivalent. Enrollment limited to 20 students. Alternate years. Offered in 1986-87.*  
3 points. M W 2:40-3:55.

## **PSY BC 3465x, BC 3466y. Field Work and Research Seminar: Barnard Toddler Center.**

The Barnard Toddler Center provides the focus for field work and research in applied developmental psychology, an amalgam of developmental, educational, and clinical psychology. Students assist one morning a week at the Center, make individual class presentations, carry out team research projects and participate in a 2-hour weekly seminar which integrates theory, research, and practice.  
—L. Aber.

*Prerequisite: BC 1127 and permission of the instructor. Permission should be requested in the spring of the year preceding registration. Enrollment limited to 12 students.*  
4 points. Tu 12:00-2:00.

## **PSY BC 3167y. History and Systems of Psychology**

Development of the discipline of psychology examined in the context of significant events occurring in other fields (philosophy, other sciences) and in society. Major schools of psychology: Structuralism, Functionalism, Behaviorism, Gestalt Psychology and Psychoanalytic Theory.—L. Braine.

*Open to juniors and seniors who have had BC 1001 and two other courses in psychology, or permission of the instructor. Alternate years. Not offered in 1986-87.*  
3 points.

## **PSY BC 3169y. Developmental Psychobiology.**

A discussion of the inherent and acquired factors in the organization of basic behavioral

processes: mechanisms underlying anatomical and functional development of the nervous system, prenatal and postnatal environmental influences on behavior, development of perception and response mechanisms, and analyses of the development of motivated behavior (e.g., feeding, sex, learning).  
—C. Williams

*Prerequisites: BC 1001 and one other course in biology or psychology. Enrollment limited to 20 students. Alternate years. Not offered in 1986-87.*  
3 points.

## **SEMINARS**

### **PSY BC 3370x, PSY BC 3370y. Special Topics.**

#### **x: I. Psychological Analysis of Racism.**

Psychological factors influencing the development and expression of racist attitudes and actions, with special references to black-white relations. Psychodynamic studies of hostility, anger, self-concept, mechanisms of defense, and other factors that produce and reduce racism. Each student will write an original research paper.—J. Fleming.

*Prerequisite: BC 1001 and permission of the instructor. Enrollment limited to 20 students. Alternate years. Offered in 1986-87.*  
4 points. W 4:10-6:00.

#### **PSY BC 3371x. Psychology and Women.**

Selected topics relevant to the scientific understanding of women's behavior and experience; sex differences in personality and abilities; development of sex differences; biological, psychodynamic and social learning theories; psychological aspects of special female experiences (e.g., menstruation, childbirth, abortion); women and therapy; women at work; and the science of psychology as it affects women.—J. Blackman.

*Prerequisites: BC 1001 and two other psychology courses, and junior or senior standing. Enrollment limited to ca. 20 students.*  
4 points. M 2:10-4:00.

#### **PSY BC 3372y. Topics in Developmental Psychology.**

Recent work selected from a broad range of areas: infant behavior, perceptual and cognitive development, family structures, and socialization practices.—L. Braine.

*Prerequisites: BC 1001 and two other psychology courses. Enrollment limited to 20 students. Not offered in 1986-87.*  
4 points.



**PSY BC 3473x. Field Work and Seminar in Psychological Services and Counseling.**

Supervised field work (minimum of 7 hours per week) applying psychological principles to work and treatment in clinical, educational, medical, and other institutional settings. Seminar discussions of theoretical approaches to clinical problems and case materials.—S. Stingle.

*Prerequisites:* 3 psychology courses and permission of the instructor. Permission of the instructor required during program planning the previous spring. Enrollment limited to 12 students; seniors given priority.

4 points. Tu 10:10-12:00 plus supervision to be arranged.

**PSY BC 3374y. Theories of Learning.**

Comparative study of major accounts of learning processes, including behavioral, cognitive, and biological theories. Evaluation of qualitative and quantitative models and their logical and empirical validity.—P. Balsam.

*Prerequisite:* BC 1105 and junior or senior standing. Enrollment limited to 15 students. Alternate years. Not offered in 1986-87.

4 points.

**PSY BC 3375y. Organization of Movement.**

Selected topics pertaining to the control of action: information for determining movement; planning an act; motor systems; stabilities; locomotion; skill; hierarchies of control; perceptual influences on planning and execution of acts.—R. Remez.

*Prerequisites:* BC 1001 and one of the following: 1105, 1108, 1117, 1127, 1130, or 1136. Enrollment limited to 20 students.

Not offered in 1986-87.

4 points.

**PSY BC 3376x. Infant Development.**

Analysis of human development during the first year of life. Perceptual, cognitive, sensory-motor, and social development will be examined, with emphasis on critical conditions involved in early learning and attachment. Other topics include prenatal development, "high-risk" infants, exploration and play, and language development.—W. Fifer.

*Prerequisites:* BC 1001 and BC 1127 or BC 1129. Enrollment limited to 20 students.

4 points. Th 2:10-4:00.

**PSY BC 3377x. The Psychology of Aging.**

Discussion of the basic areas of adult behavior. Specific topics will include biological theories of aging with specific reference to

physiological and neurological changes, an examination of intellectual and cognitive functioning, and discussion of personality changes and the social psychology of aging.—J. Rabinowitz.

*Prerequisites:* BC 1001 and three other psychology courses. Enrollment limited to 25 students. Alternate years. Not offered in 1986-87.

4 points.

**PSY BC 3591x, PSY BC 3592y. Senior Research Seminar.**

Discussion and conferences on a research project culminate in a senior thesis. Each project must be supervised by a member of the department. Successful completion of the seminar substitutes for the major examination.—J. Blackman.

*Open to eight senior psychology majors who submit a research proposal which has been approved by the course instructor and the project supervisor.*

*Prerequisites:* BC 1609, a minimum of five other psychology courses must be completed, and permission of the instructor.

4 points. Hours to be arranged.

**PSY BC 3498y. Individual Projects—Field Work.**

Field work projects planned in consultation with the instructor.—S. Stingle.

*Prerequisite:* BC 3473 and permission of the instructor.

Not offered in 1986-87.

4 points.

**PSY BC 3599x, PSY BC 3599y. Individual Projects.**

Research projects planned in consultation with members of the department—Staff.

*Open to majors on written permission of the department member who will supervise the project.*

4 points. Hours to be arranged.

**PSY W 4107y. Applications of Experimental Psychology.**

Actual and potential applications of basic research in many areas of psychology. Traditional approaches to clinical situations; alternative experimental approaches to therapy, institutional design, and social planning; clinical assessment, behavior modification, self-control, creativity, law, education, and the ethics of social control.—P. Balsam.

*Prerequisite:* Learning course and permission of the instructor. Enrollment limited to 15 students. Offered every three years. Not offered in 1986-87.

3 points.

# Psychology

## **PSY W 4132y. Production and Perception of Language.**

Review of theories and current research on the processes of speech perception. Topics include the acoustic theory of phonetic differentiation, peripheral transduction, auditory and phonetic analysis, word recognition, phrase formation, and the effects of context

in perception and production. Special topics include language perception and production in the deaf, perception of metaphor, and automatic speech recognition.—R. Remez.

*Prerequisites:* Psychology W 1501, W 3180, BC 3164 or TP 4398.

3 points. Tu 2:10-4:00.





# Quantitative Reasoning Program

Offices: 415G Milbank and Academic Computer Center

Telephone: 280-3930, 8476

This program is supervised by the Quantitative Reasoning Committee:

**Professor of Mathematics**

Joan S. Birman

**Associate Professor of Chemistry**

Sally Chapman

**Professor of Economics**

Duncan Foley

**Professor of Psychology**

Rae Silver (Director)

Instruction in the Quantitative Reasoning Program is provided by regular members of the Barnard and Columbia College Faculty.

**Requirement**

All students must pass one course in which the major topics are mathematics, methods of empirical analysis using quantitative data, or symbolic manipulation to solve problems. The requirement may be fulfilled by passing a Quantitative Reasoning course (described below), or one of the courses indicated on pp. 35-36.

**Courses on Quantitative Reasoning**

These courses aim to introduce the student to mathematical concepts through the analysis of quantitative topics in other disciplines. This one-semester course is made up of 3 units, each lasting 4 weeks. Each unit is taught by a different professor, whose area of interest lies in a discipline within either the social or the natural sciences, or in the humanities.

Each 4-week unit will be graded separately, and each unit will contribute  $\frac{1}{3}$  of the grade for the course. All 3 units must be taken in a single semester in order to complete the course.

A student who plans to register for the Quantitative Reasoning course must pass a test that measures elementary areas of ability in mathematics. The test will be offered during registration and several times during the semester. A student who has difficulty with components of the test has two options:

- 1) She may take a five-week Basic Math Skills course, BC 1001, offered twice each semester. A student who passes this course will receive one point credit for it when she successfully completes the Quantitative Reasoning course.
- 2) She may undertake independent review of math skills and retake the diagnostic test. Computer-assisted instruction drill programs and texts for this purpose will be available in the Academic Computer Center in Lehman Hall.

**QUR BC 1001x, QUR BC 1001y. Basic Math Skills.**

D. Elbaum.

*1st 5 weeks: Tu Th 4:10-5:25. 2nd 5 weeks: M W 4:10-5:25.*

*1 point (upon completion of the Quantitative Reasoning course).*

**QUR BC 1101x, QUR BC 1101y.**

**Description, Development, and Decision.**

*3 points.*

*Tu Th 4:10-5:25.*

A. How do historians use numbers to make sense of the past? Can the computer cor-

rect our myths and enhance our understanding of our heritage? The drafting and ratification of the Federal Constitution in 1787-88 will be reconstructed statistically to demonstrate the analytic procedures of modern historians.

B. How do we know when phenomena are related? If phenomena *are* related, does this mean that one causes the other? How do we test rival hypotheses? The concepts of covariance, correlation and causality will be examined using research from health psychology.

# Quantitative Reasoning Program

- C. When should data be doubted? Can decisions be made from flawed data? Government mortality statistics will be examined and interpreted to reveal their patterns and limitations, specifically with regard to accidental hypothermia. The risk of the "ecological fallacy" in population findings will be studied. Implications for policy decisions will be considered in the light of such non-quantitative factors as social values and competing national priorities.—R. McCaughey, T. Revenson, N. Rango.

## **QUR BC 1104x, QUR 1104y. Mathematical Modeling in Psychology and the Social Sciences.**

*3 points. Tu Th 2:40-3:55.*

- A. How do groups make decisions? Can majority rule yield consistent decisions? How can groups deal with disagreements? Can systems of voting be devised to improve on simple majority rule?
- B. How do people, institutions and nations resolve situations where their interests conflict? Under what circumstances can they cooperate to reach a jointly beneficial outcome? How do personality traits affect bargaining?
- C. What difference does the range of choices offered in the market (by telephone companies, appliance vendors, restaurants,

and banks, for example) make to consumers and businesses? How can mathematical models help businesses to reach profit-maximizing decisions, and regulators to protect their consumers?—C. Conrad, D.H. Krantz, D.Foley.

## **QUR BC 1105x, QUR BC 1105y. Size, Shape and Symmetry.**

*3 points. M W 1:10-2:25.*

- A. Could a Lilliputian exist? What about a woman-sized cockroach? How is the size of an organism limited by the way it must interact with its environment? Length, area, volume relationships will be investigated, with some examples developed by direct measurement.
- B. What are the aesthetic features which unify the shapes of the characters in the many varied beautiful fonts which have been created over six centuries? How can we translate the typographer's drawing of a character into a compact form which can be redrawn by a computer accurately at any scale?
- C. How can we describe and classify shapes and patterns in everyday objects? What causes the symmetry of a honeycomb or of a soap bubble? Different kinds of symmetry will be defined, including symmetry about a point and the symmetry of repetition.—P.E. Hertz, I. Morrison, S. Chapman.





# Religion

*Office: 219 Milbank Hall*

*Telephone: 280-2597, 5419*

## **The department is chaired by:**

Charles S. Olton, Vice President for Academic Affairs and Dean of the Faculty

## **Professors**

John Stratton Hawley, Alan Segal

## **Assistant Professors**

Celia Deutsch, Holland Hendrix (Departmental Representative), Brian Smith

## **Instructor**

Robert Baum

Other officers of the University offering courses listed below:

## **Professors**

Gillian Lindt, Wayne L. Proudfoot, Robert Somerville, Alex Wayman

## **Associate Professor**

Peter Awn<sup>1</sup>

## **Assistant Professors**

Scott Davis, Jay Harris, Paul Watt

## **Visiting Professors**

Ewert Cousins, Morton Smith

<sup>1</sup>On leave, Autumn Term

Approaches to the study of religion are as diverse as the world's religious traditions themselves, perhaps because the religious experience we seek to understand is inseparable from the rich diversity of human life and culture. The student of religion encounters men and women as they explore the very boundaries of their perceptions of the real. It is the challenge provoked by this encounter that makes our common involvement in the academic study of religion so fascinating, even as it leads us to scrutinize and question the boundaries of our own world view.

The inquiry into religious theory, practice, and institutional life demands a variety of methodological tools in addition to an integrating framework. The program in religion sponsored by Barnard College and Columbia College offers a unique context for this interdisciplinary study through the superb resources they command. The areas of expertise of the religion faculty (philosophy of religion, sociology and anthropology of religion, history of Eastern and Western religious traditions, comparative religion) provide the prospective student with a clear picture of the range of specialization available.

Moreover, the larger University community provides training in a broad spectrum of disciplines related to the study of religion: the social sciences, humanities, arts, and the professions. Specialized area studies programs and institutes (e.g., Middle East, Southern Asian) explore in depth the linguistic, literary, and sociocultural milieu of a particular Eastern or Western religious tradition. Barnard and Columbia offer intensive training in the languages of the major religious traditions of the world, e.g., Arabic, Chinese, Greek, Hebrew, Japanese, Latin, Persian, Sanskrit, Tibetan, and so forth. Students are encouraged to take full advantage of these and other opportunities available throughout the University.

The Jewish Theological Seminary of America and Union Theological Seminary are located within two blocks of Barnard; students are encouraged to use the resources they offer.

# Religion

All courses, except those limited to majors, satisfy the College's distribution requirements.

## REQUIREMENTS FOR THE MAJOR

### Program of study:

To be planned with the departmental representative, taking into account the educational aims of the student.

### Courses:

For the major, 10 courses are required. Students must include among the 10 courses *V 1040—Introduction to Theory and Methods in the Study of Religion* and at least one of the introductory courses (*V 1001—Major Topics in the Study of Religion*; *V 1101—Introduction to the Study of Western Religion*; or *V 1102—Introduction to the Study of Eastern Religion*), and two courses in the traditions (six points). At the levels of the introductory and traditions courses, students are expected to gain exposure to both Eastern and Western religions. The majors' colloquium, to be taken in the senior year, and 3 additional points in seminars, colloquia, or guided reading are also required.

It is strongly recommended that majors, especially those considering graduate work in religion, pursue the study of the language of one religious tradition (e.g., Arabic, Chinese, Greek, Hebrew, Latin, Sanskrit, etc.) in addition to fulfilling the College language requirement.

### Senior essay:

Majors are required to prepare a senior essay or project in consultation with a member of the department. The essay may be written in connection with *V 3901-V 3902—Guided Reading and Research*. The department takes the senior essay into consideration when making recommendations to the Faculty Committee on Honors.

## REQUIREMENTS FOR THE MINOR

The minor consists of 5 courses, including:

One of the introductory courses (i.e., Courses *V 1040*, *V 1101*, *V 1102*, *V 1001*);

Two courses selected from the Traditions; and

One course taken as a seminar, colloquium, or guided reading.

The Department also cooperates with related programs such as Ancient Studies, Oriental Studies, Jewish Studies, and with other departments, to arrange combined, double, joint, and special majors. These arrangements are made in consultation with the chairman.

## COURSES OF INSTRUCTION

Courses offered by other departments and the graduate program, but integral to the study of religion are listed here only by title. For a complete description, please consult the appropriate bulletin.

### INTRODUCTORY COURSES

#### **REL V 1001x, REL V 1001y. Major Topics in the Study of Religion.**

Introduction to theory and practice of religion, East and West, e.g., myth and ritual, reason and revelation, law and community, mysticism and religious organization.—Staff.  
3 points. III/H

*x: Tu Th 6:10-7:25. Instructor to be announced.*  
*y: M W 4:10-5:25. Instructor to be announced.*

#### **REL V 1101x, V 1101y; V 1102x, V 1102y. Introduction to the Study of Religion.**

Phenomenology of religious experience and historical forms of religious life; presuppositions, data and documents of religions of East and West. *V 1101: religions of the West.* *V 1102: religions of the East.*—Staff.

*Students may begin their study of religion with either course.*

3 points.

III/H

*V 1101x. Tu Th 4:10-5:25. C. Deutsch.*

*V 1101y. M W 5:40-6:55. R. Balmer.*

*V 1102x. Hours to be arranged. Instructor to be announced.*

*V 1102y. Tu Th 6:10-7:25. P. Watt.*

III/H

#### **REL V 1040x, REL V 1040y. Theories and Methods in the Study of Religion.**

An introduction to the problems and methods of the study of religion, focusing on classical



theorists who concentrated on the nature and origins of religion and the problems of comparison in works on "primitive" religions. Readings from Levy-Bruhl, Durkheim, Freud, Jung, Lévi-Strauss, Evans-Pritchard, and Eliade.—x: W. Proudfoot; y: B. Smith.  
3 points. x: *M W 1:10-2:25*; y: *M W 2:40-3:55*.  
III/H

## THE TRADITIONS

### REL V 2607x. Buddhism.

A historical introduction to Buddhist thought, scriptures, practices and institutions. Attention given to Theravada, Mahayana and Tantric Buddhism in India, as well as selected non-Indian forms.—P. Watt  
3 points. *M W 2:40-3:55*.  
IV/S

### REL V 2610x. Christianity.

Survey of Christianity from its beginnings through the Reformation.—R. Somerville.  
3 points. *M W 11:00-12:15*.  
IV/S

### REL V 2600y. Hinduism.

Origin and development of central themes of traditional Hinduism; basic religious literature and its relation to Indian culture. Readings include original sources in translation.—Instructor to be announced.  
3 points. *Tu Th 2:40-3:55*.  
IV/S

### Islamic-Religion ISR V 2630y. Islam.

Survey of Islamic institutions, ideas, and spirituality, their origin and development in formative and classical periods and their continued evolution in a variety of cultural settings.—P. Awn.  
3 points. *Tu Th 4:10-5:25*.  
IV/S

### REL V 2620y. Judaism.

Historical overview of Jewish belief and practice as these have crystalized and changed over the centuries. Special attention to ritual and worship, forms of religious literature, central concepts, religious leadership and institutions, and Israel among nations.—A. Segal.  
3 points. *Tu Th 10:35-11:50*.  
IV/S

### REL V 2630x. African Religious Traditions.

The variety of African religious traditions, focusing at different times on cosmology, ritual, moral systems, and dance. The distinct nature of an oral religious tradition and the problems involved in studying its doctrine and history. Examples will include Neur, Yoruba, BaKongo, Dogon, Diola.—Instructor to be announced.  
3 points. *Hours to be arranged*.  
IV/S

## INTERMEDIATE COURSES

### EASTERN RELIGIONS

#### REL V 3602x. Classical Texts in Eastern Religion.

Readings from such sources as the *Rigveda*, *Brahmanas*, and *Upanishads*.—Instructor to be announced.  
3 points. *Hours to be arranged*.  
III/H

#### REL V 3613x. Japanese Religious Tradition.

A study of the development of the Japanese religious tradition in the pre-modern period. Attention given to the thought and practices of Shinto, Buddhism and Confucianism, the interaction among these religions in Japanese history and the first Japanese encounter with Christianity.—P. Watt.  
3 points. *Tu Th 10:35-11:50*.  
IV/S

#### REL V 3640x. Chinese Religious Tradition.

*Not offered in 1986-87*.  
3 points.  
IV/S

#### Indic-Religion INR G 4301y. Hindu and Buddhist Tantrism.

*Not offered in 1986-87*.  
3 points.  
IV/S

#### Indic-Religion INR G 4335x. History and Doctrine of Indian Buddhism.

*Not offered in 1986-87*.  
3 points.  
IV/S

#### Indic-Religion INR G 4340x. The Vedic Tradition.

Survey of the chief features of the four Vedas, the *Brahmanas*, the *Upanishads* of India; the Vedic sacrifice, the opponents of Vedism, and the beginning of Hinduism.—A. Wayman.  
3 points. *W 11:00-12:50 and additional hours to be arranged*.  
IV/S

#### Indic-Religion INR G 4454y. Indian Philosophy.

Historical survey of Indian philosophy, including Vedic philosophical fragments, the six traditional schools, heterodox systems, and aesthetic theory.—A. Wayman.  
3 points. *W 11:00-12:50 and additional hours to be arranged*.  
IV/S

#### Iranian Religion IRR W 4703x-W 4704y. Religions and Philosophies of Ancient Iran.

Either term may be taken separately. W 4703: religious background of the Iranians, Zoroaster's religion, the Sassanid state culture. W 4704: Zervanism, Manichaeism, Mithraism, Mazdaism.—J. Russell.  
3 points. *M W 2:40-3:55*.

# Religion

## **Oriental Studies-Religion OSR W 4399x-W 4400y. Colloquium on Major Texts of the Oriental Traditions in Religion, Ethics, Social Thought, and Literature.**

Readings in translation. Autumn Term: Koran, Islamic philosophy and theology, Ibn Khaldun, Sufi poetry, the *Upanishads*, Buddhist sutras, *Bhagavad Gita*, Sankara, Indian epics and drama; Spring Term: *Analects* of Confucius, Lao Tzu, Mencius, *Lotus Sutra*, Zen texts, *Dream of the Red Chamber*, *Tale of Genji*, and Nō plays. Philosophical and religious issues and their characteristic expression in diverse cultural traditions through a variety of literary forms.—W. T. deBary, P. Anderer, J. Russell, and staff.

*Knowledge of the original language is not required.*

3 points. M 4:10-6:00, W 4:10-5:00. III/H

## **WESTERN RELIGIONS**

### **Judaism**

**REL V 3201x. Introduction to the Hebrew Bible.** Introduction to the literature of ancient Israel against the background of the ancient Near East.—A. Segal.

3 points. Tu Th 10:35-11:50. IV/S

**REL V 3210y. Judaism During the Time of Jesus.**

An introduction to the Hellenistic period of Jewish history with emphasis on sectarian movements and the emergence of rabbinic Judaism and Christianity as the two dominant religious movements of the West.—A. Segal

3 points. M W 11:00-12:15. IV/S

**REL V 3218x. The Concept of Covenant in the Bible.**

*Not offered in 1986-87*

3 points. IV/S

**REL V 3303x. Judaism in the European Middle Ages and the Renaissance.**

*Not offered in 1986-87.*

3 points. IV/S

**REL V 3305x. Judaism in the Modern Western World.**

How emancipation and modernization have affected Jewish religious thought and practice in the West from Moses Mendelssohn to the present; a survey of principal thinkers and of issues such as Halakhic change, Zionism, and the Holocaust.—J. Harris.

3 points. M W 11:00-12:15. III/H

**REL V 3310x. Peshat and Drash in the Jewish Tradition.**

An examination of the nature of the plain meaning (Peshat) and the non-plain meaning (Drash) of classical Jewish texts and of the theological and social implications of the tension between these two meanings.

—D. Weiss-Halivni.

3 points. M W 2:40-3:55.

III/H

**REL V 3320y. Introduction to Early Rabbinic Literature.**

*Not offered in 1986-87.*

3 points.

IV/S

**REL V 3330y. The Beginnings of Jewish Mysticism.**

*Not offered in 1986-87.*

3 points.

IV/S

**REL V 3333y. Introduction to Jewish Mysticism.**

*Not offered in 1986-87.*

3 points.

IV/S

**REL V 3338y. Jewish Ethics.**

A critical examination of both philosophical questions concerning the nature and basis of Jewish ethics and normative questions concerning the saving and taking of human life. Jewish materials will be compared with parallel discussions by contemporary ethicists.—D. Schatz.

3 points. M W 1:10-2:25.

III/H

**REL V 3340y. Contemporary Jewish Ethics.**

*Not offered in 1986-87.*

3 points.

IV/S

**REL V 3345y. Studies in Rabbinic Religion.**

*Not offered in 1986-87.*

3 points.

III/H

**REL V 3540y. Modes of Jewish Learning.**

*Not offered in 1986-87.*

3 points.

IV/S

**REL G 4302x. Religion and Society in the Period of of the Mishnah and Talmud.**

*Not offered in 1986-87.*

3 points.

IV/S

**REL W 4310x. Talmudic and Geonic Literature.**

*Not offered in 1986-87.*

**REL W 4312x. Modern Philosophies of Judaism.**

*Not offered in 1986-87.*

3 points.

III/H

**REL W 4320x. Encounters between Modern Philosophy and Judaism.**

*Not offered in 1986-87.*

3 points.



# Religion

## **REL G 4360x. Talmudic Literature.**

Critical study of the major rabbinic documents; Midrash, Mishnah, Gemara and their historical development.—D. Weiss-Halivni.  
3 points. *W* 4:10-6:00 and additional hours to be arranged. *IV/S*

## **REL W 4415x. Philo and Jewish Cosmopolitanism.**

A portrait of the first century Jewish community in Alexandria, Egypt, pre-eminent in the Hellenistic world for its sophistication and wealth, through the eyes of Philo, the Jewish philosopher and spokesman. Philo's observations and thought illuminate the rise of Christianity and rabbinic Judaism.  
—A. Segal.  
3 points. *W* 2:10-4:00. *IV/S*

## **Christianity**

### **REL V 3202x. Introduction to the New Testament.**

Introduction, by critical methods, to the religious history of the Christian movement in the New Testament period.—H. Hendrix.  
3 points. *M W F* 10:00-10:50. *IV/S*

### **REL V 3240y. Graeco-Roman Religion.**

Survey of religions of Rome and the Hellenistic East from the late 4th c. B.C.E. to early 4th c. C.E. with special attention to selected local religious phenomena.—H. Hendrix.  
3 points. *M W* 1:10-2:25. *IV/S*

### **REL V 3402y. Early Christianity.**

Emergence of early Christian communities and thought; Jesus of Nazareth; Paul; the apostolic age; political clash with Rome, paganism and the mystery religions; dialectic of orthodox and heretical thought to Augustine.—C. Deutsch.

*Prerequisite: Course V 3202 recommended.*  
3 points. *Tu Th* 2:40-3:55. *IV/S*

### **History-Religion HIR V 3405y. Medieval Ecclesiastical History: 500-1150.**

*Not offered in 1986-87.*  
3 points. *IV/S*

### **REL V 3406y. Medieval Ecclesiastical History: 900-1400.**

*Not offered in 1986-87.*  
3 points. *IV/S*

### **REL V 3408y. Catholic Theology since Vatican II.**

Development of Catholic theology after Vatican II, in its historical context; Rahner, Kung, Metz, Lonergan, Teilhard, Panikkar, libera-

tion theology: the Church and the world, infallibility, theological method, political theology, hope and the future. Christian ecumenism and world religions. —E. Cousins.  
3 points. *M W* 6:10-7:25. *III/H*

### **REL V 3409x. Luther and the Radical Reformation: Piety and Politics.**

*Not offered in 1986-87.*  
3 points. *IV/S*

### **REL V 3410x. History of Religious Thought in the West. Jesus: Early Controversies, Recent Interpretations.**

*Prerequisite: Course V 3202 or the equivalent.*  
*Not offered in 1986-87.*  
3 points. *III/H*

### **REL V 3412x. Gnosticism.**

Investigation of the gnostic gospels and other secret writings, discovered in 1945 in Egypt. These texts, denounced and destroyed as "heretical" by leaders of the early Christian Church, will be explored in terms of their historical, literary, and political content.  
—H. Hendrix.

3 points. *Tu Th* 2:40-3:55. *III/H*

### **REL W 4017x. Magic in Greek and Roman History.**

—M. Smith.  
4 points. *Tu Th* 10:35-11:50.

### **REL W 4440y. Paul.**

Reading and discussion of the Pauline epistles, the pseudo-Paulines and Acts, to determine Paul's teachings and the structure and activities of the churches he formed.  
—M. Smith.

3 points. *Tu Th* 10:35-11:50. *IV/S*

## **Islam**

### **REL V 3001x. Introduction to the Middle East and India.**

—A.T. Embree.  
4 points. *Tu Th* 10:35-11:50. *IV/S*

### **REL V 3635y. History of Sufism.**

*Not offered in 1986-87.*  
3 points. *IV/S*

### **REL G 4610y. Islamic Religion.**

*Not offered in 1986-87.*  
3 points.

### **Islamic-Religion ISR W 4452x. Islamic Law.**

The origins of Islamic law: its religious, social, and political background, and its nature; the schools of law and the elaboration of a legal theory; conflicts between theory and prac-

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tice; contacts with Western law and with customary law in newly Islamic areas; modern developments and the part played by Islamic law in contemporary legal systems and the legal thought in the Middle East.—J. Wakin.

3 points. Th 9:00-10:50; 11:00-12:15.

## **Islamic-Religion ISR W 4702y. Islamic Sectarianism.**

Not offered in 1986-87.

3 points.

## **REL W 4720y. Introduction to Islamic Philosophy.**

P. Walker.

3 points. Tu Th 2:40-3:55.

## **Religion, Culture and Society**

### **REL V 3407x. Mysticism.**

Not offered in 1986-87.

3 points.

III/H

### **REL V 3500x. Studies in Religion and Culture: 16th and 17th Centuries.**

Not offered in 1986-87.

3 points.

IV/S

### **REL V 3501y. 18th and 19th Century Religious Thought.**

Relation between religion and culture; theories of religious development (personal, social, cultural). Hume, Edwards, Lessing, Rousseau, Kant, Hegel, Schleiermacher, Coleridge, Bushnell, Emerson and others.—W. Proudfoot.

3 points. Tu Th 2:40-3:55.

IV/S

### **REL V 3503x. The History of Religion in America.**

Religious thought and institutions from colonial times to the present; influence on American political and social history through the work of representative individuals.—R. Balmer.

3 points. M W 11:00-12:15.

IV/S

### **REL V 3513x. Philosophy of Religion.**

Introduction to classical and contemporary issues, including those raised by the comparative study of religion.—S. Davis.

3 points. Tu Th 4:10-5:25.

III/H

### **REL V 3700y. Women and Religion.**

Images and roles of women in Jewish and Christian traditions; modern forms of women's spiritual quest.—C. Deutsch.

3 points. Tu Th 5:40-6:55.

III/H

### **REL V 3702x. Religious Ethics: War and Peace in Jewish and Christian Thought.**

Jewish and Christian attitudes toward war and peace; survey of classical traditions (holy war, pacifism, just war); newer elements in the discussion; utopianism, revolutionary violence, and militant non-violence.

—S. Davis.

3 points. Tu Th 9:10-10:25.

III/H

### **REL V 3704y. Religion and the State.**

Not offered regularly. Not offered in 1986-87.

3 points.

III/H

### **REL V 3705x. Problems of Authority in Religion.**

Not offered in 1986-87.

3 points.

III/H

### **REL V 3745x. Love and Community: Foundations of Christian Ethics.**

Not offered in 1986-87.

3 points.

III/H

### **REL V 3720x. Sociology of Religion.**

Not offered in 1986-87.

3 points.

III/H

### **REL V 3740x. Ethics and Religion in the Western Traditions.**

Not offered in 1986-87.

3 points.

III/H

### **REL V 3735y. Religious Ritual.**

The nature of ritual; symbolism and the sacred; forms of regular worship, annual festivals, rites of passage, including history, symbolism, present-day performances; materials from Judaism, Christianity, Hinduism, Islam, and archaic religions.—B. Smith.

3 points. M W 2:40-3:55.

III/H

### **REL V 3760y. American Indian Religions.**

Comparative and historical survey of American Indian religions. Focus on the Hopi, Iroquois, Sioux, Cherokee, and Kwaikutl. Topics will include The Ghost Dance, Peyote Cult, and witchcraft.

Instructor to be announced.

3 points. Hours to be arranged.

III/H

### **REL V 3780y. Religion in Racially Stratified Societies.**

The influence of racial stratification on the religious experience of both dominant and dominated groups, focusing on the United States and South Africa. Topics include



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theological justifications of white supremacy and black resistance, as well as African traditional religions, Christianity and the Black Muslim movement.

Instructor to be announced.

3 points. Hours to be arranged. III/H

## **REL G 4703x. Philosophy of Religion in America.**

Not offered in 1986-87.

3 points.

## **REL G 4451x. Humanism and Religion.**

Not offered in 1986-87.

3 points.

## **Religion-Sociology RSC G 4701y. Sociology of Religion: Comparative Institutions.**

Not offered in 1986-87.

3 points.

## **REL G 4705x. Social Theory and Religion: The Classics.**

Not offered in 1986-87.

3 points.

## **Anthropology ANT V 3042x. The Anthropology of Religion.**

W. Keeler.

3 points. WF 2:40-3:55.

## **SEMINARS AND READING COURSES**

Students must obtain permission of the instructor.

## **V 3800x. Majors' Colloquium.**

Critical issues in the modern study of religion.

—W. Proudfoot and B. Smith.

Required for all senior majors.

4 points. F 11:00-2:00.

## **REL V 3803x. Seminars in Religious Thought.**

### **I. Images and Conceptions of Good and Evil.**

Not offered in 1986-87.

4 points. III/H

### **III. Gods and Goddesses of the Hindu Tradition.**

Not offered in 1986-87.

4 points.

### **IV. Kierkegaard.**

Not offered in 1986-87.

4 points. III/H

## **VI. Gender Roles in the Hebrew Bible.**

C. Deutsch.

4 points. Hours to be arranged. III/H

## **X. Religion and Philosophy in Islam: The Question of Reconcilability.**

Survey of the problem of the reconcilability or irreconcilability of religion and philosophy in Islamic civilization. Major works dealing with this issue will be read in translation and analyzed.

W. Kadi.

4 points. Th 2:10-4:00. III/H

## **REL V 3804y. Seminars in Religious Thought.**

### **V. Religious Responses to Suffering and Death.**

Not offered in 1986-87.

4 points. III/H

### **XI. Continuity and Change in Indian Religions.**

Not offered in 1986-87.

4 points. III/H

### **XIII. The Letters of Paul.**

Not offered in 1986-87.

4 points. III/H

### **XIV. Religion and Imperialism.**

Not offered in 1986-87.

4 points. III/H

### **XVI. The Meaning of Ritual in Judaism.**

Not offered in 1986-87.

4 points. III/H

### **XVII. West African Religious Experience.**

The study of West African religions, including the diversity of traditional religions as well as the influence of the slave trade and the growth of Christianity and Islam in West African religious history. Cases include Dogon, Yourba, Igbo, Hausa, Diola, and Wolof.—R. Baum.

4 points. W 2:10-4:00. III/H

### **XVIII. Early Christian Self-definition: The Gospel of Matthew.**

Analysis of the Gospel of Matthew as an example of early Christian self-definition in the context of Graeco-Roman religions and first century Judaism.—C. Deutsch.

4 points. W 4:10-6:00. IV/S

### **XIX. Afro-American Religious History.**

A survey of black religious life and

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culture from the colonial period to the present set against the background of the Afro-American experience.—R. Balmer.

4 points. Tu 2:10-4:00.

IV/S

## XX. The Philosophical Foundations of Classical Judaism.

A study of Jewish credal statements, exegetical techniques, legal reasoning and ritual requirements, for the purpose of discerning the philosophical world view on which Judaism is based.—J. Harris.

4 points. Th 2:10-4:00.

III/H

## XXI. Jewish Civil Law.

A study of Jewish Civil Law in its historical development with particular attention to justifications offered for having "Mishpat Ivri" (the study of Jewish Civil Law) as an independent discipline. Most

illustrations will be taken from "Nezikin," the "Order of Damages."  
—D. Weiss-Halivni.

4 points. W 4:10-6:00.

IV/S

## Religion REL V 3901x, REL V 3902y.

### Guided Reading and Research.

A program of study designed to give outstanding majors an opportunity to pursue independently a subject of their choosing. A written essay is required of students taking this program.—Staff.

3 points.

Consultation periods to be arranged with adviser.

III/H

## GRADUATE COURSES

Other courses of possible interest to students, which are open to qualified undergraduates with the instructor's permission, are described in the bulletin of the Graduate School of Arts and Sciences.





# Russian

Office: 226 Milbank Hall

Telephone: 280-5417

## Professors

Richard F. Gustafson (Chairman), Marina Astman

## Associates

Anatol K. Sapronow, Marianna Sapronow, Zoya Trifunovich

Other officers of the University offering courses in Russian:

## Professors

Robert L. Belknap, William E. Harkins, Robert A. Maguire

## Assistant Professors

Frank Miller, Cathy Popkin, Irina Reyfman

## Associate

Alla Klimova

## Lecturer

Irene Balaksha

The Russian Department at Barnard offers a program designed to help the student obtain reasonable fluency in the spoken and written language, a reading command of Russian adequate for interpreting texts of some difficulty, and a general knowledge of Russian literature and culture, especially of the nineteenth and twentieth centuries. The department insists upon a strong foundation in the language, because this best prepares students for future graduate study in literature, history, economics, or political science, as well as for careers in government, business, journalism, or international law.

Foreign Language Requirement for the Degree: all students must take a placement examination before entrance. This examination tests the student's knowledge of grammar, her comprehension of written and spoken Russian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others must complete Russian V 1202, *Intermediate Course*, or any course beyond that level. Students whose native language is Russian should consult with the department chairman.

The Russian Club attends Russian movies, operas, and church services, and visits Russian restaurants and areas of the city where Russian is spoken.

## REQUIREMENTS FOR THE MAJOR

Students must have completed two years of college Russian before entering the program. Prospective majors or minors should consult with either Professor Gustafson or Professor Astman as early as possible.

A total of 10 courses are required for the major:

Russian V 3333- 3334	<i>Introduction to Russian Literature</i>
Russian V 1220	<i>Nineteenth-Century Russian Prose</i>
Russian V 1221	<i>Twentieth-Century Russian Prose</i>
Russian V 3595	<i>Seminar</i>

At least two courses from:

Russian V 3441, V 3442	<i>Russian Conversation and Composition</i>
Russian V 3443, V 3444	<i>Russian Syntax and Style</i>

And at least three more courses, including at least *one* course from the following:

Russian V 3461	<i>Pushkin</i>
Russian V 3462	<i>Gogol</i>
Russian V 3463	<i>Tolstoy</i>

# Russian

Russian V 3464  
Russian V 3465

Russian V 3467

*Dostoevsky*  
*Russian Poetry in the 19th and 20th*  
*Centuries*  
*Twentieth-Century Prose Writers*

Independent study with any of the faculty at Barnard and the Department of Slavic Languages and Literatures at Colombia University can be arranged and study in the Soviet Union is possible as part of the major.

## REQUIREMENTS FOR THE MINOR

A total of five courses beyond the second year of Russian are required for the minor, including either V 3331, V 3332, *Advanced Course*, or V 3333, V 3334, *Introduction to Russian Literature*, but not both. No courses in translation count toward the minor.

## COURSES OF INSTRUCTION

### LANGUAGE COURSES

#### RUS V 1101x-RUS V 1102y. Elementary Course.

Grammar, reading, composition, and conversation.

*One additional hour of phonetics to be arranged.*

*No credit is given for V 1101 unless V 1102 is satisfactorily completed.*

4 points.

Section I M Tu W Th F 9:00. M. Sapronow.

Section II M Tu W Th F 9:00.

*Instructor to be announced.*

Section III M Tu W Th F 10:00. M. Sapronow.

Section IV M Tu W Th F 10:00.

*Instructor to be announced.*

Section V M Tu W Th F 11:00. A. Klimova.

Section VI M Tu W Th F 1:10.

*Instructor to be announced.*

Section VII M Tu W Th 6:10-7:25.

*Instructor to be announced.*

#### RUS V 1201x-RUS V 1202y. Intermediate Course.

Reading, composition, grammar review; oral practice in small groups.

*Prerequisite: Course V 1102 or the equivalent.*

*Oral practice is required.*

4 points.

Section I M W F 9:00. *Instructor to be announced.*

Section II M W F 10:00. I. Balaksha.

Section III M W F 11:00. I. Balaksha.

Section IV M W F 11:00. *Instructor to be announced.*

Section V M W F 12:00. A. Klimova.

Section VI M W F 1:10. I. Balaksha.

*Oral Practice*

Section I Tu Th 9:00.

Section II Tu Th 10:00.

Section III Tu Th 11:00.

Section IV Tu Th 11:00.

Section V Tu Th 12:00.

Section VI Tu Th 1:10.

#### RUS V 3331x, RUS V 3332y. Advanced Course.

Emphasis on conversation and composition; reading and discussion of selected twentieth-century texts; lectures, papers, and oral reports. Conducted entirely in Russian.—Z. Trifunovich and staff.

*Prerequisite: Course V 1202 or the equivalent.*

*Oral practice is required.*

4 points.

Section I M W F 10:00. Z. Trifunovich.

Section II M W F 1:10. Z. Trifunovich.

*Oral Practice*

Section I M W 2:10.

Section II Tu Th 1:10.

#### RUS V 3441x, RUS V 3442y.

##### **Russian Conversation and Composition.**

Selected twentieth-century texts including fiction and non-fiction provide a context for discussion of contemporary issues; lectures, reports, and compositions. Conducted entirely in Russian.—N. Rachmanov.

*Prerequisite: Three years of college Russian or permission of the instructor. The second term may be taken without the first.*

3 points. M W F 12:00.

#### RUS V 3443x, RUS V 3444 y. Russian Syntax and Style.

Autumn Term: Systematic study of problems in Russian syntax; written exercises; translations into Russian, and compositions. Spring Term: Discussion of styles and levels of language, including word usage and idiomatic expressions; written exercises, analysis of texts, and compositions. Conducted entirely in Russian.—Z. Trifunovich.



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*Prerequisite: Three years of college Russian or permission of the instructor. The second term may be taken without the first.*  
3 points. M W F 11:00.

## **RUS V 3451x-RUS V 3452y. Understanding Soviet Media.**

Analysis and discussion of current events as described by Soviet television and newspapers. Acquisition and development of Russian lexicon, and interpretation of Soviet journalistic technique. Conducted entirely in Russian.—F. Miller and staff.

*Prerequisite: Three years of college Russian or permission of the instructor.*  
3 points. M W F 10:00.

## **RUS W 4432x. Contrastive Phonetics and Grammar of Russian and English.**

Comparative phonetic, intonational, and morphological structures of Russian and English, with special attention to typical problems for American speakers of Russian.—F. Miller and staff.

*Prerequisite: Four years of college Russian or permission of the instructor.*  
3 points. M W F 1:10, and two hours to be announced.

## **RUS W 4433y. Specific Problems in Mastering Russian.**

The Russian verb (basic stem system, aspect, locomotion); prefixes; tempora, spatial, and casual relationships; word order; word formation.—F. Miller and staff.

*Prerequisite: Four years of college Russian or permission of the instructor.*  
3 points. M W F 1:10, and two hours to be announced.

## **RUS W 4434x-RUS W 4435y. Advanced Composition: The Writing of Expository Prose.**

Practice in the varieties of critical writing. Development of vocabulary and syntactic structures appropriate for abstract discourse. Conducted entirely in Russian.—M. Astman.  
*Prerequisite: Four years of college Russian or permission of the instructor.*  
4 points. W 4434x: M 9:00-10:50, W 10:00;  
W 4435y: M W 11:00-12:15.

## **LITERATURE COURSES**

### **RUS V 3333x-RUS V 3334y. Introduction to Russian Literature.**

A close study in the original of representative

works of Russian literature from Pushkin to Solzhenitsyn.—I. Reyfman.

*Prerequisite: Grade of B- or better in RUS V1202 or permission of the instructor. Oral practice is required.*  
4 points. M W F 1:10. II/H

### **RUS V 3461y. Pushkin.**

Pushkin's narrative, dramatic, and lyrical verse in the original.—R. Gustafson.

*Prerequisite: Three years of Russian or permission of the instructor. Not offered regularly. Not offered in 1986-87.*  
3 points. II/H

### **RUS V 3462x. Gogol.**

The major works of Gogol, in the original.—Instructor to be announced.

*Prerequisite: Three years of Russian or permission of the instructor. Not offered regularly. Not offered in 1986-87.*  
3 points.

### **RUS V 3463y. Tolstoy.**

A close reading, in the original, of major shorter fiction. Class discussion conducted in English.—R. Gustafson.

*Prerequisite: Three years of Russian or permission of the instructor. Not offered regularly.*  
3 points. Tu Th 2:40-3:55. II/H

### **RUS V3464x. Dostoevsky.**

One major novel, in the original, with emphasis on linguistic and literary analysis. R. Belknap.

*Prerequisite: Three years of Russian or permission of the instructor. Not offered regularly. Not offered in 1986-87.*  
3 points. II/H

### **RUS V 3465y. Russian Poetry in the Nineteenth and Twentieth Centuries.**

Selected texts from representative lyric poets, including Tiutchev, Fet, Blok, and others; metrics, formal analysis of style and structure, and relationships to literary and philosophical movements.—M. Astman.

*Prerequisite: Three years of Russian or permission of the instructor. Not offered regularly. Not offered in 1986-87.*  
3 points. M W F 1:10-2:00 II/H

### **RUS V 3467x. Twentieth-Century Prose Writers.**

Two or three of the most important twentieth-century writers, in the original.—I. Reyfman.  
*Prerequisite: Three years of Russian or permis-*

# Russian

*sion of the instructor. Not offered regularly.  
3 points. Tu Th 10:35-11:50. II/H*

## **RUS V 3595x. Seminar.**

Supervised individual research on some aspect of the seminar topic with class reports culminating in a critical paper.—M. Astman.  
*Prerequisite: Major status or permission of the instructor.*

*4 points. W 2:10-4:00*

## **RUS V 3596y. Individual Research.**

Supervised individual research culminating in a critical paper.—Staff.  
*Open to senior majors, and permission of the instructor is required.*

*4 points. Hours to be arranged.*

## **RUSSIAN LITERATURE IN TRANSLATION**

### **RUS V 1220x. Nineteenth-Century Prose.**

The development of prose forms from Pushkin to Chekhov, with special attention to Lermontov, Gogol, Goncharov, Turgenev, and Saltykov-Shchedrin. Tolstoy and Dostoevsky are not included.

—R. Maguire.

*A knowledge of Russian is not required.*

*3 points. Tu Th 1:10-2:25.*

### **RUS V 1221y. Twentieth-Century Russian Prose.**

Course of Russian prose fiction from symbolism to the present; Bely's *Petersburg*, Sologub's *Petty Demon*, Olesha's *Envy*, and representative major works by Bunin, Pasternak, and Nabokov. Recent "dissident" writers

such as Solzhenitsyn.—C. Popkin.  
*A knowledge of Russian is not required.  
3 points. Tu Th 1:10-2:25.*

### **RUS V 1222x. Tolstoy and Dostoevsky.**

Major works of the two writers.—R. Belknap.  
*A knowledge of Russian is not required.  
3 points. Tu Th 9:10-10:25.*

### **RUS V 1224y. Introduction to Russian Culture.**

Principal currents of Russian thought and artistic expression with emphasis on elements that appear to be characteristically Russian.—W. Harkins.

*A knowledge of Russian is not required.*

*3 points. Tu Th 10:35-11:50.*

### **RUS V 1225y. Russian Women—Myth and Reality.**

Literary and historical records studied chronologically with focus on women's social position, their literary image, and their contribution to culture. Special attention to the Soviet period.—Marina Astman.

*A knowledge of Russian is not required.*

*Not offered in 1986-87.*

*3 points.*

### **Russian-Religion G 4006x. Modern Russian Religious Thought.**

Concepts of God, man, nature, and history; Chaadaev, Khomyakov, Solovyov, Fyodorov, Berdyaev, Shestov, Florensky, Bulgakov, Lossky, Frank and others.—R. Gustafson.

*A knowledge of Russian is not required.*

*Not offered in 1986-87.*

*3 points.*





# Sociology

Office: 410 E Milbank Hall

Telephone: 280-4359, 3577

## Professors

Bernard Barber (Chairman),<sup>2</sup> Mirra Komarovsky,<sup>1</sup> Viviana Zelizer

## Assistant Professor

Mary Ruggie<sup>2</sup>

## Lecturers

Theresa Rogers, Nathalie Friedman

Other officers of the University offering courses listed below:

## Professors

Allen Barton, Peter Blau, Ronald Burt, Herbert Gans, Eric Hirsch, Eugene Litwak, Herbert Passin, Alan Silver, Seymour Spilerman, Harriet Zuckerman

## Assistant Professors

Eric Hirsch, Joseph Schwartz, Andrew Walder

<sup>1</sup>Emeritus and Special Lecturer

<sup>2</sup>Absent on leave, 1986-87

Sociology introduces students to the scientific study of society. The basic problems common to all human societies and the varied institutional solutions to these problems make up one large area of sociological interest; hence the sociological study of the family, social class, economic and political institutions, education, science, etc. The impact on individual behavior of ethnic, racial, religious, and sexual categorizations, rural and urban differences, bureaucratic organizations and small groups, and the mass media are also of sociological interest. So is the relationship between social structure, culture, and personality. Sociology is concerned not only with the normal functioning of social institutions but also with social change and with social problems such as deviance and crime, industrial conflict, and other areas of social disorganization. In studying these subjects, materials about American society are given primary emphasis. Comparative materials from other societies, preliterate and more highly developed, are also extensively used. Finally, sociology seeks to acquaint students with its methods of investigation, from which students learn important facts about scientific method in general.

There are no special admissions requirements or procedures. Students (majors and non-majors) are encouraged to consult with members of the department regarding their choice and sequence of courses. Combined and double majors may be arranged. In addition, the Columbia department offers a wide variety of sociology courses which are open to interested Barnard students.

## REQUIREMENTS FOR THE MAJOR

The major prepares students for graduate work in sociology as well as in other disciplines; for professional schools (law, business, social work, journalism, urban planning), and for all occupations requiring general knowledge of society and social interaction as well as basic skills of social research.

A minimum of ten courses is required for the major, including

Sociology BC 1001, BC 1002

Sociology V 3100

Sociology V 1205

Sociology V 3212

Sociology BC 3087-BC 3088

*Introduction to Sociology*

*Introduction to Social Theory*

*Evaluation of Evidence*

*Methods of Social Research*

*(both no later than the junior year)*

*Individual Projects for Seniors*

# Sociology

and at least three other courses selected in consultation with the major adviser. Sociology V 3100, B 1205, and V 3212 should be taken, if possible, in the sophomore year and *no later* than the junior year.

There is no major examination. To graduate, a student must complete, to the satisfaction of her instructor in Sociology, BC 3087-BC 3088, a long paper involving some form of sociological research and analysis.

## REQUIREMENTS FOR THE MINOR

Five courses are required for the minor in Sociology, including Sociology BC 1001, BC 1002, and three courses to be selected in consultation with the Sociology adviser.

## COURSES OF INSTRUCTION

**SOC BC 1001x. Introductory Sociology, I.** Introduction to the sociological perspective on human behavior; major theoretical orientations, research methods, and policy uses. Application of basic sociological concepts to the study of love and death. Process of social learning in childhood and adulthood; sex role differences; agents of socialization—family, education, mass media, workplace.—V. Zelizer.

3 points. M W 11:00-12:15. V/S

**SOC BC 1002y. Introductory Sociology, II.** General introduction to sociological analysis continued. Impact of small groups and formal organizations on individual behavior, selected problems of social deviance and social control, stratification, and social change.—V. Zelizer.

*Prerequisite:* BC 1001 or permission of the instructor.

3 points. M W 11:00-12:15. V/S

**SOC V 1205x. Evaluation of Evidence.**

A nontechnical introduction to alternative strategies by which social science data are transformed into evidence for theoretical arguments. Discussion of the logic and procedures of social science research and standards for the critical evaluation of that research; the discussion is based on a careful reading and analysis of significant studies exemplifying the use of different kinds of social science data and methods (field observations, historical archives, surveys, and experiments).—R. Burt.

3 points. Tu Th 2:40-3:55.

*One introductory course in sociology suggested for all 3000-level courses.*

**SOC BC 3087x-SOC BC 3088y. Individual Projects for Seniors.**

The instructor will supervise the writing of long papers involving some form of sociological research and analysis.—N. Friedman.

*Required of all senior majors.*

4 points. W 4:10-6:00.

**SOC V 3100y. Introduction to Social Theory.** Development of theories of society in the 19th and early 20th centuries. Detailed examination of the works of the major founders of sociology: Marx, Weber, and Durkheim, as well as a look at other theorists. Topics include the relationship between the individual and society, the nature of class and class struggle, and morality and purpose in social action.—Instructor to be announced.

3 points. Tu Th 4:10-5:25. V/S

**SOC V 3101x. Contemporary Social Theory.** Major developments in social theory in the 20th century with special focus on symbolic interactionism, structuralism, and critical theory. Theorists to be discussed include Goffman, G. H. Mead, Lévi-Strauss, Althusser, Freud, and Habermas.

—Instructor to be announced.

*Not offered in 1986-87.*

3 points. V/S

**SOC V 3209x. Social Class and Social Mobility.**

Consideration of the contemporary U.S. class structure and mobility within that structure. Discussion of barriers to mobility for minorities, women, and the poor.—E. Hirsch.

3 points. Tu Th 10:35-11:50. V/S

**SOC W 3210y. Comparative Sociology of Race and Ethnicity.**

Theories of racial and ethnic structures. Polarization or deescalation of conflict in divided societies. Obstacles to and consequences of social mobility. Ideology and consciousness.—Instructor to be announced.

3 points. M 6:10-7:25. V/S

**SOC V 3212y. Methods of Social Research.** Introduction to elementary data analysis. Definition and measurement of variables; testing of hypotheses; interpretation of findings. Students use the computer to perform a simple analysis of a data set.—Joseph Schwartz.

*Prerequisite:* Sociology V 1205x.

3 points. M W 2:40-3:55.

*One hour laboratory per week.* V/S



## **SOC V 3215y. American Society and Politics.**

Development of political behavior in the United States in relation to social change, using historical data on voting and elites along with survey data for the last forty years. Bases of cleavage in mass and elite political behavior (class, ethnicity, region, etc.); role of social movements and third parties; reasons for failure of socialist and fascist movements in comparison with European experience; current trends in ideology and political behavior.—A. Barton.

*3 points. Tu Th 2:40-3:55.*

*V/S*

## **SOC W 3220y. Bureaucracy.**

Brief overview of theories about the operations and problems of different kinds of organization. Analyses of such organizations as government agencies, factories, and academic institutions. Discussion of research on the formal structures of organizations, technology, personnel qualifications, and professionalization.—P. Blau.

*3 points. Hours to be arranged.*

## **SOC 3221y. Social Disorganization, Crime, and Deviance.**

Major theoretical approaches to crime and deviance, and an analysis of major research studies.—R. Read.

*3 points. M W 4:10-5:25.*

## **SOC V 3225y. Sociology of Education.**

The social organization of education in the United States and its effects. Examines schools as agents of socialization; the contribution of education to social equality and inequality; schools as formal and informal organizations; teachers and students; and the politics of education including case studies of desegregation, decentralization, and public versus private schooling.—H. Zuckerman.

*3 points. Tu Th 1:10-2:25.*

## **SOC V 3228y. Sociology of Medicine.**

An analysis of illness and its management in contemporary society. Topics include social definitions of health and illness, with emphasis on mental illness; the structure of the "sick" role; social factors in the etiology and distribution of illness; social organization of the medical profession and of the hospital; and problems and prospects of health delivery systems.—T. Rogers.

*3 points. M W 2:40-3:55.*

*V/S*

## **SOC W 3231x. Social Networks.**

How network concepts explain a variety of social phenomena in American life. The use of networks in obtaining jobs, resolving marital problems, adapting to medical innovation, and structuring scientific achievement among academic elites, etc. A critical, non-mathematical review of social network theory.—R. S. Burt.

*Not offered in 1986-87.*

*3 points.*

*V/S*

## **SOC W 3237x. Sociology of Personal Relations.**

Ideals and institutions of personal relations in the Western cultural tradition. The influence of social structure and change on ideas of trust, loyalty, sincerity, and intimacy—and their opposites—in times past and modern society. Readings drawn from literature, history, and sociological theory and research.—A. Silver.

*3 points. Hours to be arranged.*

## **SOC W 3240x. Introduction to Japanese Society.**

Japanese society and culture. Its background, development, and present status. The transformation of a non-Western, non-industrialized society into a modern industrial society.—H. Passin.

*3 points. Tu Th 1:10-2:25.*

## **SOC W 3250x. Marxist Social Thought.**

A critical survey of the ideas of Marx and Engels about the development of capitalism, class conflict and revolution, and of subsequent Marxist ideas designed to account for the survival and continued evolution of capitalism, and the outbreak of revolution in underdeveloped countries. The course is designed to leave students with a coherent overview that allows them to make informed critical judgments about various paths of the Marxist tradition.—A. Walder.

*3 points. Hours to be arranged.*

*V/S*

## **SOC V 3265y. Minorities and Ethnic Groups in American Life.**

Role of racial and ethnic communities in modern American society, with emphasis on the distinctive cultural, political, and occupational patterns, as well as their tendencies to intermarry, assimilate, and conflict. Groups such as the Jewish, Italian, Irish, Puerto Rican, and Blacks will be studied.—E. Litwak.

*3 points. M W 11:00-12:15.*

*V/S*

# Sociology

## **SOC V 3303y. Female and Male. A Sociological Perspective.**

Economic, demographic, and cultural changes modifying the traditional conceptions of masculinity and femininity; stresses in female-male relationships at various stages of the life cycle and in the family, occupational world, and other institutional settings; class and race differences in social roles of the sexes; social policies leading to the alleviation of current problems.—M. Komarovsky.

*Enrollment limited to 35 students. Sign-up sheet, 317 Milbank Hall.*

*3 points. M W 12:30-1:45. V/S*

## **SOC W 3324x. Urban Sociology.**

Focus on theoretical approaches to urban sociology, the historical development of U.S. cities, the importance of economic and political processes in causing urban problems, and urban protest movements as a response to these trends.—E. Hirsch.

*3 points. Tu Th 1:10-2:25. V/S*

## **SOC W 3415. Sociology of News and Journalism.**

The roles of the national news media in American life. Economic, organizational, political and ideological factors in the reporting and selecting of news. Objectivity, news values, censorship and other issues of news policy. The effects of the news on people and politics. Journalism as a profession.—H.J. Gans.

*Not offered in 1986-87.*

*3 points. V/S*

## **SOC W 3443y. The Sociology of Corporations and Markets.**

A sociological analysis of market competition, and the management of competition by corporate bureaucracies. Corporations and other economic agencies as social organizations.—R. Burt.

*Hours to be arranged.*

*3 points. V/S*

## **SOC V 3555y. Sociology of Family Institutions.**

An examination of major theoretical frameworks and empirical research concerning the family. Analysis of the contemporary industrial family, with considerable attention to historical and cross-cultural materials. Some topics are: courtship and mate selection; sex roles and sexuality; alternative

family structures; parenthood and the changing status of children; the impact of class, ethnicity and race on family life; social policy and the future of the family.—V. Zelizer.

*3 points. M W 1:10-2:25. V/S*

## **SOC W 3620x. The Sociology of Law and Legal Systems.**

Detailed examination of social forces and traditions that help shape the law. Current social controversies as seen in legal decision-making, including: race and sex discrimination; capital punishment; affirmative action; health risks in the workplace; privacy; school desegregation and busing; business regulation and concentration. The historical and current uses and abuses of social science evidence and methods in legal cases. Theoretical issues of equity, fairness, deterrence, risk assessment, linked to scientific evidence. Emphasis on landmark constitutional cases; readings include cases and materials as well as social science studies.—J. Cole.

*Not offered in 1986-87.*

*3 points. V/S*

## **SOC W 3666x. Political Sociology.**

Sociological approaches to the study of such topics as power, ideology, continuity and change, capital accumulation and distribution, and political legitimation. Special focus on the development of modern welfare states in comparative perspective.—Instructor to be announced.

*3 points. Tu Th 2:40-3:55. V/S*

## **SOC W 3680y. Sociology of Work and Occupation.**

Problems of mobility, alienation, reward, and occupational satisfaction are systematically treated through reference to theoretical and empirical works. Attention is given to the structure of careers in contemporary American society and to race and sex differences in attainment.—S. Spilerman.

*3 points. M W 4:10-5:25. V/S*

*4000-level courses are open to juniors and seniors.*

## **SOC G 4018x. Sex Roles and Society.**

The impact of biology, psychology, and society on sex-role differentiation and the consequences of sex-typing for the individual and society. Major theoretical perspectives and significant recent interdisciplinary research. Topics include socialization; the



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family; death, divorce, singlehood; deviance, health, illness; race, class, age, stratification; sexuality; social policy.—V. Zelizer.  
*3 points. W 2:10-4:00.* V/S

**SOC G 4039x. Sociology of Knowledge.**  
The study of ideas, knowledge, culture, as part of general theory of sociology. Emphasis on empirical studies, historical and contemporary, in the sociology of knowledge. Control and responsibility in the professions based on knowledge.—B. Barber.  
*Not offered in 1986-87.*  
*3 points.* V/S

**SOC W 4203y. Comparative Social Policy.**  
The relationship between social policy and social change in macrosociological perspective. Empirical focus on policies for women including family, social welfare and health policies, labor market and economic policies, and antidiscrimination legislation in various advanced industrial societies.—M. Ruggie.  
*Not offered in 1986-87.*  
*3 points.* V/S



# Spanish

Office: 211 Milbank Hall

Telephone: 280-8805, 8312

## Professors

Alfred MacAdam (Chairman), Mirella Servodidio

## Associate Professor

Marcia Welles

## Associate

Vilma Bornemann

## Lecturers

Flora Schiminovich, Helene Farber de Aguilar

## Instructors

James Crapotta, Alicia Ramos, Agueda Pizarro Rayo, Perla Rozencvaig

A major in Spanish is designed to enable the student to acquire ease and fluency in the written and spoken language, and to develop an understanding and appreciation of the cultural traditions and literature of Spain and Latin America.

Foreign Language Requirement for the Degree: Freshmen who have had prior training in Spanish and who wish to satisfy the foreign language requirement in Spanish will be placed in the appropriate language courses on the basis of their CEEB scores, or, if such are not available, on the basis of proficiency test taken before registration. Students having a sufficiently high score will automatically fulfill the requirement. All others may do so by completing BC 1204 with the exception of students of Spanish-American background who may fulfill the requirement with BC 3006 instead of BC 1204. Transfer students should consult the department chairman.

Active student-faculty cooperation and exchange are encouraged through the Spanish Club, which sponsors discussion sessions, film series, and lectures by professors and visiting scholars on topics of current interest. Student participation is essential to the faculty's yearly presentation of a classic or contemporary drama to the academic as well as general New York Hispanic communities. The rich cultural resources of the city are utilized at all levels of instruction as a natural extension of the academic process.

## REQUIREMENTS FOR THE MAJOR

Students interested in the major are urged to consult with the department as early as possible in order to arrange a program best suited to their particular concerns. Guidance and program coordination are also offered to Foreign Area Studies majors in the subdivisions of Latin America and Spain. Study abroad (Spain or Latin America) is actively encouraged and supported by departmental scholarship funds available to majors.

The ten following courses are required for the major; a sequential order is strongly recommended:

Spanish BC 3013

Spanish BC 3015

Spanish BC 3017

Spanish BC 3018

*The Culture of Spain*

*Spanish-American Culture*

*Spanish Literature in the Middle Ages and  
Early Renaissance*

*Literature of the Golden Age*



# Spanish

Spanish BC 3020  
Spanish BC 3023  
Spanish BC 3025, BC 3026  
Spanish BC 3031, BC 3032

*Don Quijote*  
*Nineteenth-Century Literature in Spain*  
*Contemporary Spanish Literature I and II*  
*The Literature of Latin America*

A major in Spanish must broaden her study of Spanish culture by relating it to other cultures that have influenced it or been influenced by it. The following courses are recommended. (Please check with departments for status of offerings and times.)

Anthropology V 3032  
Art History V 3080  
Art History V 3500, V 3501  
Classical Literature BC 1032  
Classical Literature V 3123  
French BC 3021-BC 3022

German BC 3055  
German BC 3056  
History W 4779-W 4780  
Philosophy BC 1001  
Philosophy V 3850  
Religion V 1101

*The Archaeology of the Old World*  
*Pre-Columbian Art*  
*European Painting Since the Renaissance*  
*Classical Myth*  
*Greek Drama and its Influence*  
*Masterpieces of Literature from the Middle Ages to the Twentieth Century*  
*Major Works of German Literature*  
*Modern German Literature*  
*History of Latin American Civilization*  
*Introduction to Philosophy*  
*Concept of Literature*  
*Introduction to the Study of Religion*

The major examination consists of a three-hour written examination on Spanish literature and a three-hour written examination on Hispanic civilization and Spanish-American literature. All examinations are conducted in Spanish.

## REQUIREMENTS FOR THE MINOR

A student minoring in Spanish will be required to take Spanish BC 3020, BC 3031, and BC 3032, and three more courses to be chosen from Spanish BC 3017, BC 3018, BC 3023, BC 3025, and BC 3026.

## COURSES OF INSTRUCTION

### LANGUAGE COURSES

(Enrollment limited to 20 students per section.)

#### SPA V 1101x-SPA V1102y. Elementary Full-Year Course.

Grammar, reading, conversation.—Staff.  
*May not be taken parallel to elementary Italian.*  
*Work in the language laboratory is required.*  
*4 points. No credit is given for V 1101 unless V 1102 is completed.*

*Sections I, II M Tu W Th F 10:00.*  
*Section III M Tu W Th F 11:00.*

#### SPA BC 1001x-SPA BC 1002y. Intensive Elementary Course.

Intensive alternative to Spanish V 1101-V 1102 based on the Dartmouth Intensive Language model and designed to promote rapid oral fluency. Class meets ten hours per week: five hours devoted to drill work, five hours to communicative situations. Primarily for students who need to acquire Spanish for travel or professions requiring fluency.—J. Crapotta and staff.

*4 points. No credit is given for course BC 1001 unless BC 1002 is completed.*

*M Tu W Th F 9:00 and M Tu W Th F 12:00.*

#### SPA BC 1003x. Intensive Review of Elementary Spanish.

Course for incoming students whose score on the placement examination puts them between the beginning and intermediate level. Also intended for students of Spanish-American background who have some speaking knowledge of Spanish but insufficient formal training or grammatical foundation.—Staff.

*Prerequisite: Course V 1101 or the equivalent.*  
*Work in the language laboratory is required.*  
*4 points.*

*Section I M Tu W Th 9:00.*

*Section II M Tu W Th 11:00.*

#### SPA BC 1203x, SPA BC 1204y. Intermediate Course.

Rapid review of grammar and syntax; oral practice; discussion and analysis of important works in Spanish and Spanish-American literatures.—Staff.

*Prerequisite: V 1102 or BC 1102 or the equivalent.*  
*Work in the language laboratory is required.*  
*3 points.*

*Section I M W F 10:00.*

*Section II M W F 11:00.*

*Section III M W F 10:00. (only in Spring term)*

# Spanish

## **SPA BC 1205x. Intermediate Spanish through Theatre.**

An alternative course to Spanish BC 1203, stressing oral and written skills through reading and performance of dramatic texts. Review of pronunciation and grammar through analysis of dialogue. Writing of original scripts and dramatic monologues. Videotaping of some performances. Plays will include one work being performed in the city by a professional company. Recommended for students particularly interested in developing communicative skills.—J. Crapotta.

*Prerequisite: V 1102 or BC 1002 or the equivalent.*

*Limited to 15 students.*

*3 points. M W F 11:00.*

## **SPA BC 1206x, SPA BC 1207y. Intermediate Conversation.**

Intensive oral practice; pronunciation; technical vocabulary; short speeches; group discussion.—Staff.

*Recommended parallel: Spanish BC 1203, BC 1204.*

*Prerequisite: V 1101x-V 1102y or the equivalent.*

*Not open to native speakers.*

*2 points. M W 12:00-1:00.*

## **SPA BC 1203y. Intermediate Course. Part I.**

Equivalent to BC 1203x but given in the Spring Term.—Staff.

*Prerequisite: V 1102 or the equivalent.*

*Work in the language laboratory is required.*

*3 points.*

*Section I M W F 10:00.*

*Section II M W F 11:00.*

## **SPA BC 1204x. Intermediate Course. Part II.**

Equivalent to BC 1204y, but given in the Autumn Term.—Staff.

*Prerequisite: BC 1203 or the equivalent.*

*3 points.*

*Section I M W F 10:00.*

*Section II M W F 11:00.*

## **SPA BC 3006x. Problems of Spanish Grammar.**

Morphology, structure, and syntax as a point of departure for questions related to New York City Spanish; i.e., why linguistic norms operate, what variants develop, to what extent New York City Spanish is peculiar and why.—E. Giordano.

*Prerequisite: BC 1204 or the equivalent, or Latin-American background. Recommended to students in Education, Linguistics, Urban Studies. May be used to fulfill the foreign language requirement by students of Spanish-American background.*

*3 points. M W 1:10-2:25.*

## **SPA BC 3007y. Advanced Composition and Translation.**

Designed to improve expository skills and to develop greater stylistic subtlety and flexibility. Translation of various styles of poetry and prose.—H. Aguilar.

*Prerequisite: BC 1204 or the equivalent.*

*3 points. M W 1:10-2:25.*

## **SPA BC 3009x, BC 3010y. Advanced Oral Spanish.**

Spoken Spanish, differences of pronunciation in Spain and America; conversation, oral drills, theatrical improvisation, and field work.—Staff.

*Prerequisite: BC 1204 or the equivalent and permission of the instructor. Not open to native speakers. Enrollment limited to 15 students per section.*

*2 points. M W 12:00-1:00.*

## **French-Spanish FSP BC 3090x.**

### **Methodology of Foreign Language Teaching.**

Methods course designed to train future teachers in theories and techniques of language teaching: Teaching conversation, grammar, literature, translation and lesson organization. Students practice and demonstrate techniques. Videotaping of some sessions for auto-critique.—J. Crapotta.

*Primarily for sophomores and juniors in the Education Program and others interested in foreign language teaching.*

*Not offered in 1986-87.*

*3 points.*

## **LITERATURE AND CULTURE COURSES**

For non-majors, the courses listed in this section (except BC 3013 and BC 3015, BC 2016) will count toward the distribution requirement. All Barnard courses are conducted entirely in Spanish unless otherwise stipulated.

Unless otherwise stated, the prerequisite for all literature courses is the satisfaction of the foreign language requirement in Spanish.



**SPA BC 3005x. Literary Analysis of Contemporary Authors.**

Major twentieth-century works; techniques of literary analysis as they apply to different genres; theories of criticism; critical evaluation of style, structure, and content.—F. Schiminovich.

3 points. Tu Th 1:10-2:25

II/H

**SPA BC 3011x, SPA BC 3011y. Significant Themes of Contemporary Latin American and Spanish Literature.**

Selected works of contemporary interest. BC 3011 may be elected more than once for course credit, providing sections vary.

3 points.

**SPA BC 3011y. II. The Thriller and the Detective Story in Latin American Literature.**

Themes, techniques, and underlying ideologies of the detective, mystery, and thriller narrative in the works of Borges, Silvina Ocampo, García Márquez, Fuentes, and Maria Angélica Bosco.—F. Schiminovich.

M W F 11:00.

II/H

**SPA BC 3011x. IX. Contemporary Women Poets of Latin America: The Poem as Inner and Outer Space.**

The evolution of poetic language in Latin American poetry of the second half of the twentieth century as a definition of a woman's space in relation to her multiple roles as creator, mother and daughter, wife and lover, combatant and discoverer, worker and player. Poems by authors such as Rosario Castellanos, Claribel Alegría, Amanda Berenguer, Olga Orozco, will be discussed and analyzed.—A. Pizarro Rayo.

Tu Th 1:10-2:25.

II/H

**XI. García Lorca: The Poet in His Contexts.**

A study of how García Lorca, though a young man when he died, managed to redirect and transform poetry and theater in twentieth-century Spain. An examination of Lorca in his various contexts—his relationship to surrealism (Buñuel, Dalí), to the avant-garde in general, and to his Spanish heritage, placing Lorca within the spirit of his times and understanding his significance for contemporary readers. Readings include Lorca's poetry, theater, and literary statements as well as relevant critical material.

—M. Welles.

Hours to be arranged.

II/H

**SPA BC 3013x. The Culture of Spain.**

History and culture of Spain; origins and evolution of Spanish character, tradition, and thought; interrelationship of its history and arts and the scope of its contribution to Western culture. Use of audiovisual materials.—M. Welles.

3 points. Tu Th 10:35-11:50.

**SPA BC 3015x. Spanish-American Culture I.**

Spanish-American history, society, and art, from the time of the great Indian empires to the late nineteenth century.—P. Rozencaig.

3 points. M W F 10:00.

For Spanish-American Culture II (BC 2016) see listings under *Spanish Courses in Translation*.

Both terms required of Latin American Areas majors. The first semester required of Spanish majors.

**SPA C 3333x-C 3334y. Masterpieces of Spanish Literature (in Spanish).**

Survey of major works of great writers of Spain and Spanish America.—Instructors to be announced.

3 points.

C 3333x: M W F 10:00.

C 3334y: M W F 10:00.

II/H

**SPA BC 3017x. Spanish Literature in the Middle Ages and the Early Renaissance.**

Lectures and discussions in Spanish on Spanish literature from its origins to the beginnings of the sixteenth century.—M. Servodidio.

3 points. M W F 11:00.

II/H

**SPA BC 3018y. Literature of the Golden Age.**

Poetry, theater, and narrative of the Golden Age; Garcilaso, the mystic poets, Cervantes, Lope de Vega, and Calderón.—M. Welles.

3 points. M W F 11:00.

II/H

**SPA BC 3020y. Don Quijote.**

Cervantes' masterpiece; a study of the principal critical works.—J. Crapotta.

*Prerequisite:* BC 3017 or BC 3018 or permission of the instructor.

3 points. M W F 10:00.

II/H

# Spanish

## **SPA BC 3023y. Nineteenth-Century Literature in Spain.**

Romantic drama and poetry; realistic novel with special emphasis on Galdós.—A. Ramos.

*3 points. M W F 10:00*

*II/H*

## **SPA BC 3025x. Contemporary Spanish Literature. Part I.**

Characteristics, techniques, and style of writers of the generation of '98 from Unamuno to Baroja, Valle-Inclán, Azorín, Benavente, A. Machado, Juan Ramón Jiménez, and Ortega y Gasset.—M. Servodidio. *Prerequisite: BC 3017 or BC 3018 or permission of the instructor.*

*3 points. M W 1:10-2:25.*

*II/H*

## **SPA BC 3026y. Contemporary Spanish Literature. Part II.**

Ideas, trends, and new literary concepts from García Lorca and the generation of '27 to the present-day writers.—M. Welles.

*3 points. M W 1:10-2:25.*

*II/H*

## **SPA BC 3031x, SPA BC 3032y. The Literature of Latin America.**

Autumn Term: Introductory study from its indigenous origins in the Popol-Vuh, through the Colonial period to the twentieth century. Modernist poets and the literature of the Gaucho and the Indian. Spring Term: Post-Modernist poetry; Jorge Luis Borges; contemporary Latin-American novel.

*3 points.*

*BC 3031x: M W 2:40-3:55. H. Aguilar.*

*BC 3032y: Tu Th 1:10-2:25. A. MacAdam.*

*II/H*

## **SPA BC 3033x, SPA BC 3033y. Senior Project.**

Independent research for a senior essay, under a chosen faculty adviser and with the chairman's permission.—Staff.

*Open only to seniors.*

*3 points. Hours to be arranged.*

## **SPA BC 3034y. Independent Research in Latin America.**

Designed for senior majors in Latin American areas to examine those aspects of Latin American culture which have the greatest significance for them. Senior essay written in consultation with the major adviser and an instructor selected from the department appropriate to the specific topic. Students may also consider a translation project.—A. MacAdam.

*Open to senior majors in Latin American areas; others by written permission.*

*3 points. Hours to be arranged.*

## **SPANISH COURSES IN TRANSLATION**

### **SPA BC 2001y. Modern Latin American Narrative.**

An introduction to modern Latin American narrative for English-speaking students. The course seeks to examine the major trends in Latin American narrative, from the late nineteenth century to the present. Readings include Machado de Assis, Borges, Cortázar, Fuentes, García Márquez, and Mario Vargas Llosa.—A. MacAdam.

*Not offered in 1986-87.*

### **SPA BC 2016y. Spanish-American Culture II.**

Spanish-American culture from the period of Independence to the present day. Readings will consist of personal documents (letters, memoirs, diaries) as well as essays by Latin American intellectuals. Among authors to be read are: Simón Bolívar, Borges, Octavio Paz, Puig.—A. MacAdam.

*3 points. Tu Th 10:35-11:50.*

## **AREA COURSES**

For information on Latin American and Spanish Area courses, see listings under Foreign Area Studies.



# Statistics

Office: 618 Mathematics Building

Telephone: 280-3652

*Officers of the University offering courses in Statistics:*

**Professors**

Cyrus Derman, Tze Leung Lai, Howard Levene, John Van Ryzin (Chairman)

**Associate Professors**

Ioannis Karatzas (Departmental representative, 614 Mathematics)

**Assistant Professors**

Fridrik Baldursson, Michael Hogan

The Department of Statistics offers a wide range of courses in probability and statistics. Probability and statistics deal with phenomena involving uncertainty. Probability theory describes the behavior of given random systems, while statistical methods facilitate the discovery of hidden regularities in such systems from observed data. The department trains students to apply statistical methodology in their later careers in the biomedical or social sciences, business, engineering, etc., or to continue with graduate study in statistics, business management, operations research and related fields. Members of the department are actively engaged in both theoretical and applied research. Computing facilities include both interactive terminals and large scale batch-mode processing.

**REQUIREMENTS FOR THE MAJOR**

All majors should consult the departmental representative regularly in planning their programs of study. The requirements listed below are special to this department and must be read in conjunction with the general requirements for the bachelor's degree. As a rule, no more than 12 points of transfer credit may be accepted toward the major.

A total of 13 courses are required for the major:

Mathematics V 1101, V 1102 and V 3202, or their equivalents  
Statistics-Operations Research W 3611, or Statistics-Eng Math W 3658  
Statistics W 3659, W 3662 and W 3701

One approved course in computer science beyond the introductory level and 5 additional courses to be chosen with departmental approval from statistics, mathematics, computer science, or operations research, at least 2 of which must be statistics courses numbered above 4100.

A major examination set by the department must be passed in the senior year. By special permission, a Senior Project may be substituted.

**REQUIREMENTS FOR THE MINOR**

The minor in statistics requires 4 courses in statistics including:

W 3611 (or W 3658), W 3612 (or W 3659), W 3621 (or W 3662), W 3625 (or any statistics course numbered above 4100) and one approved course in computer science.

**COURSES OF INSTRUCTION**

**STA W 1111x, y. Introduction to Statistics.**  
An introduction to the principles of quantitative reasoning and methods of statistics, with applications to social and natural sciences. Elements of data analysis. Graphical and

numerical summaries of data. Probability and distributions of random variables. Statistical inference. Tests of hypotheses. Estimation of unknown parameters. Comparing treatment with control. Basic concepts of correlation and regression analysis.  
—x and y: Fridrik Baldursson.

# Statistics

*Prerequisite: High school mathematics through intermediate algebra. This course may be followed by W 3621 or W 3625 or appropriate courses in statistics given by other departments.*

3 points.

x: Tu Th 10:35-11:50.

y: Tu Th 6:10-7:25.

## **Statistics-IEOR STO W 3611x.**

### **Probability and Statistical Inference I.**

Probability theory. Important distributions. Central limit theorem. Introduction to data analysis. Estimation: point and confidence intervals. Hypothesis testing.—M. Klein.

*Prerequisite: A working knowledge of calculus.*  
3 points. Tu Th 1:10-2:25.

## **Statistics-IEOR STO W 3612y. Probability and Statistical Inference II.**

Principles of statistical inference. Statistical decision problems. Maximum likelihood estimation. Nonparametric procedures. Correlation and curve-fitting. Applications of probability theory and statistics to engineering, natural and social sciences.—C. Derman.

*Prerequisite: Statistics W 3611x or the equivalent.*  
3 points. Tu Th 11:00-12:15.

## **STA W 3621y. Applied Regression and Non-parametric Methods.**

Simple linear regression. Multiple regression. Prediction. Analysis of variance. Nonparametric tests of hypotheses. Robust estimation. Relevant statistical packages. Applicants to natural and social sciences.—T.L. Lai.

*Prerequisite: Statistics W 1111, or Statistics-IEOR W 3611x, or a basic course in statistics.*

*Alternate years. Offered in 1986-87.*

3 points. Tu Th 4:10-5:25.

## **STA W 3625y. Applied Multivariate Analysis.**

Graphical and numerical summaries of discrete and continuous multivariate data. Contingency table analysis, chi-square test, and measures of association. Correlation. Clustering algorithms. Introduction to factor analysis, discriminant analysis, and principal components. Relevant statistical packages. Applications to natural and social sciences.

*Prerequisite: Statistics W 1111, or Statistics-IEOR W 3611, or the equivalent.*

*Alternate years. Not offered in 1986-87.*

3 points.

## **Statistics-EngMath STE W 3658x, y. Probability.**

Fundamentals of probability theory. Distributions of one or more random variables. Moments. Generating functions. Functions of a random variable. Law of large numbers and the central limit theorem.

x: C. Derman; y: M. Hogan.

*Prerequisite: a working knowledge of calculus.*  
3 points. M W 1:10-2:25.

## **STA W 3659y. Statistical Inference.**

Principles of statistical inference. Population parameters, sufficient statistics. Basic distribution theory. Point and interval estimation. Method of maximum likelihood. Method of least squares, regression. Introduction to the theory of hypothesis testing. Likelihood ratio tests. Nonparametric procedures. Statistical design theory. Applications to engineering, medicine, natural and social sciences.—I. Karatzas.

*Prerequisite: Statistics-IEOR W 3611 or W 3658 or the equivalent.*

3 points. W 6:50-9:20.

## **STA W 3662x. Regression and Analysis of Variance.**

Simple linear regression. Multiple regression. Hypothesis testing and confidence sets. Analysis of variance for one-way, two-way factorial designs. Multiple comparisons. Components of variance models. Elements of experimental design; randomized blocks and Latin squares.—H. Levene.

*Prerequisite: Statistics W 3659 or the equivalent, linear algebra, and computer programming.*

3 points. W 4:10-6:40.

## **STA W 3701y. Introduction to Data Analysis.**

Data analysis using the computer statistical package SCSS and selected exploratory data analysis subroutines. Topics include editing of data for errors, exploratory and standard techniques for one-way analysis of variance, linear regression and two-way analysis of variance. Material is presented in case-study format.—G. Kelly.

*Prerequisite: A one-term introductory statistics course.*

3 points. Tu 2:10-4:00 and two hours of laboratory to be arranged.

## **Statistics-IEOR STO W 4606x, y. Elementary Stochastic Processes.**

Review of elements of probability theory. Poisson process. Exponential distribution.



# Statistics

Renewal theory. Wald's equation. Introduction to discrete time Markov chains and applications to queueing theory, inventory models, branching processes.—x: T.L. Lai; y: C. Derman.

*Prerequisite: Statistics-EngMath W3658 or the equivalent.*

*3 points.*

*x: M 6:50-9:20.*

*y: W 4:10-6:40.*

## **STA W 4113y. Nonparametric Statistics.**

Statistical inference without parametric model assumption. Hypothesis testing using ranks, permutations, and order statistics. Nonparametric analogs of analysis of variance. Tolerance limits. Robust estimation. Introduction to sequential statistical procedures. Applications to quality control and clinical trials.—J. Van Ryzin.

*Prerequisite: Statistics W 3659.*

*Alternate years. Offered in 1986-87.*

*3 points. Hours to be arranged.*

## **STA W 4115y. Multivariate Statistical Inference.**

Multivariate normal distribution, multivariate regression and analysis of variance; canonical correlation and tests of independence. Principal components and other models for factor analysis. Discriminant functions and the classification problem; cluster analysis.

*Prerequisite: Statistics W 3662 or 4112 or the equivalent.*

*Alternate years. Not offered in 1986-87.*

*3 points.*

## **STA W 4137x. Time Series Analysis.**

Least squares smoothing and prediction, linear systems, Fourier analysis and spectral estimation. Discussion of the impulse response and transfer function, Fourier series, the fast Fourier transform algorithm, autocorrelation function and spectral density. Univariate Box-Jenkins modeling and forecasting. Emphasis will be on practical applications and the theoretical foundation necessary for understanding and extending these applications in examples from the physical sciences, social sciences and business. Sample output from an interactive graphical-statistical system will be an integral part of the lectures. Emphasis on the role of computer graphics, using an interactive graphical-statistical system.—P. Welch.

*Corequisite: W 3662 or the equivalent.*

*3 points. Th 4:10-6:00.*

## **STA W 4143x. Theory and Analysis of Lifetime Data.**

Survival distributions, types of censored data, estimation for various survival models, non-parametric estimation of survival distributions and related functions, comparison of two or more survival distributions, the proportional hazard and accelerated lifetime models for covariate data, regression analysis with lifetime data.

*Prerequisite: Statistics W4107, or the equivalent.*

*Alternate years. Not offered in 1986-87.*

*3 points.*

## **STA C 3997x or y. Independent Research.**

*Prerequisite: the permission of a member of the department. May be repeated for credit. The student participates in the current research of a member of the department and prepares a report on the work.—Staff.*

*3 points.*

# Theatre

Office: 231 Milbank Hall

Telephone: 280-2079, 5417

## Associate in Theatre Luz Castaños

Through its courses in theatre history and technique for the actor, director, and designer, the Barnard Program offers serious training for the theatre in a liberal arts context. The curriculum, along with production activities, which include a vigorous student-generated workshop series, is designed to afford those who wish to begin serious, pre-professional study an opportunity to acquire basic skills in acting, directing, design, and management. For those who seek an understanding and appreciation of theatre technique, the program offers a realistic introduction to the demands, disciplines, and rewards of the art. Because of its place in a liberal arts college, the Barnard Theatre Program is able, as well, to help students develop as informed artists, conscious of the historical, social, political, and ethical, as well as the aesthetic, dimension of their work. All the production activity, whether in the Minor Latham Playhouse or the smaller, informal Marion Victor Studio, is designed to help students in the Barnard Theatre Program explore their own abilities, test their ideas, and expand their vision. The Theatre Program also has a rich guest artist policy through which people from all areas of the profession spend anywhere from one day to a full semester in residency.

Ms. Luz Castaños advises theatre students, and all of the theatre staff are available for discussion and conference. For further information consult the theatre office.

Students contemplating a career in the theatre should see the announcement on the Program in the Arts, page 77, and should consult the Director of the Playhouse at the earliest possible time.

There is no major or minor in Theatre, but students may concentrate in theatre either through the English Department or the Program in the Arts.

Among the courses concerned with the theatre are these, described in detail in the departmental announcements. For other courses offered in the University, please consult the Director of the Playhouse.

### DANCE

**BC 2563x. Form in Dance Composition.**  
J. Soares.

**BC 2564y. Content in Dance Composition.**  
J. Soares.

**BC 2565x, BC 2566y. History of the Dance.**  
C. Novack.

**BC 3574y. Contemporary Choreographers and Their Works.**  
Dance Staff.  
*Alternate years. Not offered in 1986-87.*

### CLASSICS

**Classical Literature V 3123x. Greek Drama and its Influences.**  
L. Jones.

**Greek V 3305x. Tragedy.**  
T. Coulter.

*Alternate years. Not offered in 1986-87.*

### ENGLISH

**BC 3113x. Dramatic Writing.**  
Instructor to be announced.

**BC 3121x. The Uses of Speech**  
E. Caughran.

**BC 3124y. Oral Interpretation of Literature.**  
E. Caughran.

**BC 3127x. Public Speaking.**  
E. Caughran.

**BC 3128y. Persuasive Speaking.**  
E. Caughran.



# Theatre

**BC 3163x, BC 3164y. Shakespeare.**  
R. Patterson.

**BC 3169y. English Drama: 900-1642.**  
R. Patterson.

**BC 3186y. Modern Drama.**  
B. Ulanov.  
*Alternate years. Offered in 1986-87.*

**BC 3129x. History of the Theatre: Origins to the Restoration.**  
L. Castaños.

**BC 3130y. Modern Theatre: The 18th Century to the Present.**  
L. Castaños.

**BC 3131x, BC 3132y. The Contemporary Theatre.**  
L. Castaños.

**BC3133x. Basic Design for the Theatre.**  
D. Parichy.

**BC 3134x, BC 3134y. Play Production.**  
Theatre Staff.

**BC 3135x, BC 3136y. Actor's and Director's Interpretation of Dramatic Literature.**  
Theatre Staff.

**BC 3139x, BC 3139y. Special Studies in Theatre.**  
L. Castaños and guest artists.

## FRENCH

**BC 3016y. Advanced Oral French.**  
Instructor to be announced.  
*Offered in 1987-88.*

**BC 3034x. The French Theatre of the Seventeenth Century.**  
R. Geen. *Offered in 1987-88.*

**BC 3039y. Twentieth-Century French Theatre.**  
R. Geen.  
*Alternate years. Offered in 1986-87.*

## GERMAN

**BC 3015x. Goethe.**  
G. Sakrawa.  
*Alternate years. Not offered in 1986-87.*

**BC 3018x. Schiller.**  
G. Sakrawa.  
*Alternate years. Not offered in 1986-87.*

**BC 3025y. The Age of the Bourgeoisie in German Literature.**  
G. Sakrawa.  
*Offered every three years. Offered in 1986-87.*

**BC 3026y. Modern German Theatre.**  
B. Bradley.  
*Alternate years. Offered in 1986-87.*

**BC 3036x. Goethe's Faust.**  
G. Sakrawa.  
*Not offered regularly. Not offered in 1986-87.*

**BC 3046x. German Literature in the Eighteenth Century.**  
G. Sakrawa.  
*Alternate years. Offered in 1986-87.*

## ITALIAN

**V 3642y. Studies in Contemporary Italian-Arts: Italian Film**  
J. Becker.

## MEDIEVAL AND RENAISSANCE STUDIES

**V 3034y. Italian Renaissance: Courts and the Theatre (1400-1600).**  
H. Doris and M. Lorch.  
*Not offered in 1986-87.*

## MUSIC

**V 1005x. The Opera.**  
K. Rohrer.

# Urban Affairs

Office: 407 Lehman Hall

Telephone: 280-5097, 8422

This program is supervised by the Committee on Urban Affairs:

**Professor of Political Science**

Demetrios Caraley (Chairman)

**Assistant Professor of Urban Affairs and Political Science**

Kathryn B. Yatrakis (Program Director)<sup>1</sup>

**Professor of Anthropology**

Paula G. Rubel

**Professor of Economics**

Deborah D. Milenkovitch

**Professor of English**

Barry Ulanov

**Professor of Sociology**

Bernard Barber

**Assistant Professors of Urban Affairs and Political Science**

Elaine Abelson, Ester Fuchs, Barbara Ferman

<sup>1</sup>Absent on leave, 1986-87.

The purpose of the Urban Affairs Program is to develop understanding of the basic institutions, problems and achievements of city life.

## REQUIREMENTS FOR THE MAJOR\*

A major in Urban Affairs can be taken only in conjunction with a specialization in one of the regular departments.

In order to major in Urban Affairs, a student must fulfill the following requirements:

a) Eight courses distributed as follows:

One course dealing primarily with urban subject matter in **each of three** of the following departments from among those courses indicated:

Anthropology V 3100

Economics W 3228

History W 4673 or W 4674

Political Science W 3313

Sociology V 3265

or Sociology V 3324

(or their equivalents)

*Urban Societies*

*The Urban Economy*

*American Urban History*

*American Urban Politics*

*Minorities in American Life*

*Urban Sociology*

One course dealing primarily with urban subject matter from a list approved by the committee in **one** other department, such as art history, architecture, English, geography, psychology, and urban planning. One course in a quantitative subject—statistics, computer science, or an equivalent methodology course. The list of specific courses and of the departments that offer specializations for urban affairs majors is available at the office of the Program Director.

In the junior year:

Urban Affairs V 3545-V3546

*Junior Colloquia V 3545:*

*Shaping of the Modern City*

*V 3546: Contemporary Urban Problems*

\*Classes of 1985, 1986 should consult the 1983-84 Bulletin for major requirements.



# Urban Affairs

In the senior year:

Political Science-Sociology  
V 3994-V 3995

or

Planning A 6290x-6911y

or

Research Seminar in the de-  
partment of specialization

*New York Area Undergraduate  
Research Program*

*Workshop in Planning Skills  
Planning*

and

- b) The satisfactory completion of a specialization in one of the participating departments consisting of not fewer than **five** courses and the writing in that department of a senior thesis on an urban topic.

## REQUIREMENTS FOR THE MINOR

There is no minor in Urban Affairs.

## COURSES OF INSTRUCTION

### UAF BC 3535x. Colloquium in Urban Administration and Management.

Processes of administration and management of cities. Executive leadership, decision-making, bureaucracy, budgeting and personnel—K. Yatrakis.

*Prerequisite: Political Science BC 3001 or V 3313, or the equivalent. Enrollment limited to ca. 20 students.*

*4 points. Tu 2:10-4:00.*

### UAF BC 3537x. Workshop in Urban Administration and Management.

Resources of New York City utilized to gain first-hand experience of administrative and managerial processes through unpaid internships of 8-10 hours per week.—K. Yatrakis.

*Corequisite: Urban Affairs BC 3535x.*

*2 points. Biweekly meeting to be arranged.*

### UAF V 3545x-V 3546y. Junior Colloquium in Urban Affairs.

Autumn Term. **Shaping of the Modern City.** Urbanization, using various methods, concepts, and materials. Origin and current status of urban problems.—E. Abelson.

Spring Term: **Contemporary Urban Problems.** Problems that currently afflict urban areas and assessment of attempted solutions. Problems of urban development, housing, education, poverty, transportation, and health.—B. Ferman.

*Prerequisite: permission of the instructor. Enrollment limited to 15-20 students.*

*4 points.*

*V 3545x: Th 11:00-12:50.—E. Abelson.*

*V 3546y: Section I W 11:00-12:50.—E. Fuchs.*

*Section II W 11:00-12:50.—B. Ferman.*

### UAF BC 3964y. Senior Colloquium in Urban Affairs: Urban Prospects.

Future prospects of cities and metropolitan areas; reports on research being conducted for the senior thesis in the department of concentration.—K. Yatrakis.

*Open only to senior majors.*

*4 points. Tu 2:10-4:00.*

### Political Science-Sociology PSS V 3994x-V3995y. New York Area Undergraduate Research Program.

An ongoing program that develops a social research project from conceptualization to final report. Using New York City as a research laboratory, students choose different topics each year for study. Under the guidance of the faculty coordinator, students clarify basic theoretical issues related to the research problem; operationalize a series of empirical questions; collect evidence to test hypotheses; analyze the data using a variety of social science techniques; produce reports of basic findings. Students individually and in small groups learn many of the basic tools used by social scientists. Topic for 1986-87 is Economic Development and Public Policy.—B. Ferman.

*Prerequisite: Enrollment limited to 10-15 students, selected by application only to the instructor. Junior or senior standing is required. Participation is for two terms.*

*Note: Barnard Urban Affairs majors with a Political Science concentrate have the option to use this course to satisfy the senior thesis requirement with the approval of the Political Science Department.*

*4 points. Tu 11:00-11:50.*

# Women's Studies

*Office: 203 Barnard Hall*

*Telephone: 280-2108*

This program is supervised by the Committee on Women's Studies:

**Professor of Psychology**

Lila Braine

**Assistant Professor of Political Science and Women's Studies**

Leslie Calman<sup>2</sup>

**Instructor in French**

Susan Cohen

**Director of Experimental Studies Program**

Joan Dulchin

**Associate Professor of Classics**

Helene Foley<sup>1</sup>

**Instructor of Women's Studies**

Susan Fraiman

**Professor of Spanish (Columbia)**

Jean Franco

**Professor of French**

Tatiana Greene<sup>2</sup>

**Professor of English (Columbia)**

Carolyn G. Heilbrun

**Professor of English**

Maire Jaanus<sup>1</sup>

**Director of the Women's Center**

Temma Kaplan

**Professor Emeritus of Sociology**

Mirra Komarovsky

**Professor of Women's Studies**

Nancy K. Miller (Chair)

**Lecturer in Health and Society**

Theresa Rogers

**Associate Professor of History**

Rosalind Rosenberg

**Assistant Professor of Sociology**

Mary Ruggie<sup>2</sup>

**Director of the Education Program**

Susan R. Sacks

**Assistant Professor of English**

Celeste Schenck<sup>1</sup>

**Lecturer in Spanish**

Flora Schiminovich

**Adjunct Associate Professor of English**

Janice Farrar Thaddeus<sup>1</sup>

**Associate Professor of Spanish**

Marcia Welles

**Professor of History**

Suzanne Wemple

**Student Members**

To be announced

<sup>1</sup>Absent on leave, 1986-87

<sup>2</sup>Absent on leave, Spring Term



# Women's Studies

The Women's Studies Program is an interdisciplinary program for students who wish to explore the basic questions raised by the new scholarship on women. Some of the issues touched upon in this field are: sex roles, sex differences, and the concepts of femininity and masculinity; the roles of women in culture and society, past and present, and their implications for the roles of men; questions about the distribution of power, work, and resources in the public and private domains; and the symbolic representations of gender and identity in literature, religion, and art.

Early in their sophomore year, students interested in the major should consult the Chair or any one of the faculty members teaching Women's Studies courses for a list of advisers and required courses in the disciplines of concentration.

Students also have the option of electing a joint or double major (see p. 42); and have access to Columbia graduate courses, as well as V-courses, since some cover special areas not otherwise available at Barnard.

Complementing the Women's Studies Program, the Barnard Women's Center maintains an extensive and expanding resource collection on women's issues. The Center also sponsors monthly women's issues luncheons, a yearly conference, *The Scholar and the Feminist*, devoted to the exploration of the relationship of feminist studies to traditional scholarship, and the Reid Lectureship which brings to the campus distinguished women who have proved themselves to be responsive to women's concerns.

## REQUIREMENTS FOR THE MAJOR

Majors in the program are trained in interdisciplinary research skills, and focus their studies in one of two areas of specialization: history/humanities or the social sciences. An individual area of study may be developed, in special cases, in consultation with a member of the Women's Studies Committee. The major in Women's Studies is taken in conjunction with a concentration in one of the departmental disciplines.

The requirements for the major are 14 courses to be distributed as follows:

Women's Studies BC 3111	<i>Major Texts of the Feminist Tradition</i>
Women's Studies BC 3112	<i>Colloquium in Women's Studies</i>
Women's Studies BC 3521-BC 3522	<i>Senior Research Seminar</i>

5 other courses in Women's Studies (see listing below), at least three in the student's area of specialization and at least one in another area; and

5 courses other than Women's Studies courses in the department of the student's concentration, to be selected in consultation with a member of that department.

The thesis course, Women's Studies BC 3521-BC 3522, provides an opportunity for senior majors to engage in original, interdisciplinary research, and to bring to bear the theoretical emphasis of Women's Studies scholarship on a particular area of empirical investigation. Further, in the senior seminar, majors have the opportunity to discuss methodological issues and problems of research in a directed and supportive environment.

Special projects using the city's resources may be developed into term papers or incorporated into the senior essay. An extensive project under the sponsorship of at least two faculty members may be offered for course credit as Women's Studies BC 3599, *Independent Research*.

## REQUIREMENTS FOR THE MINOR

No minor is offered in Women's Studies.

# Women's Studies

## COURSES OF INSTRUCTION

### **WMS V 1001y. Women and Men: Power, Politics, Poetry.**

An introduction to the way in which femininity and masculinity have been imagined in literature and constructed in culture. I. Social construction of gender; II. Female and male in twentieth-century literature and culture: contemporary problems; III. Visions of the Future. The new interdisciplinary scholarship on gender will be presented in the works of literature, films, social science, and current theory.—E. Klein and N. Miller.

3 points. Tu 2:10-4:00. Discussion. Tu or Th 4:00-5:00.

### **WMS BC 3111x, WMS BC 3111y. Major Texts of the Feminist Tradition.**

The important contributions to the elaboration of feminist thought in the West evaluated through critical discussion. Analysis of works by Mary Wollstonecraft, J.S. Mill, A. Kollontai, Simone de Beauvoir, Emma Goldman, C. P. Gilman, Zora Neale Hurston and others in an attempt to discover the roots of the contemporary feminist movement.

Permission of the instructor required. Enrollment limited to 20.

x: M 2:10-4:00. L. Calman.

y: Tu 2:10-4:00. R. Rosenberg.

4 points.

### **WMS BC 3112y. Colloquium in Women's Studies.**

A critique of traditional knowledge based on the new interdisciplinary research on women in such fields as psychology, biology, literature, anthropology, and history. Guest lecturers will discuss their recent work.—S. Fraiman.

Permission of the instructor required.

4 points. Th 2:10-5:00.

### **WMS BC 3113y. Contemporary Issues in Feminist Thought.**

Major issues in contemporary feminism since the 1960s. A review of the theoretical debates on sex roles, feminism and socialism, psychoanalysis, language and cultural representations.—S. Cohen.

Permission of the instructor required.

4 points. W 4:10-6:00.

### **WMS BC 3117x. Women and Film.**

A critical interpretation of genre films from a

women's studies perspective—how the image of woman relates to the language of film.—M. Phelan.

Enrollment limited to 40 students.

3 points. M W 4:10-6:00.

### **WMS BC 3120x. The Invisible Woman in Literature: The Lesbian Literary Tradition.**

An interdisciplinary exploration of the lesbian experience.—Instructor to be announced.

Offered in 1987-88.

3 points.

### **WMS BC 3521x-WMS BC 3522y. Senior Seminar.**

Individual research in Women's Studies conducted in consultation with the instructor. The results of each research project submitted in the form of the senior essay, and presented to the seminar.—N. Miller.

Prerequisites: BC 3111, BC 3112, or permission of the instructor. Enrollment limited to senior majors.

x: M 10:00-12:00.

y: M 10:00-12:00.

4 points.

### **WMS BC 3599x, WMS BC 3599y. Independent Research.**

—N. Miller.

3 or 4 points. Hours to be arranged.

### **Anthropology-Women's Studies**

#### **ANW V 3039y. Women in Third World Development.**

Comparison of women's social and economic roles in both traditional and modernizing societies. Women's roles in the family, community, and class structure will be discussed through a detailed examination of a series of ethnographies.—E. Crandon.

Prerequisite: An introductory Anthropology or Women's Studies course or permission of the instructor.

Not offered in 1986-87.

3 points.

### **English-Women's Studies EWS BC 3144y.**

#### **Minority Women Writers in the United States.**

A study of the literature of twentieth century minority women writers in the United States, with particular emphasis upon the works of Asian, Black, Hispanic and Native American women. The works will be studied within a historical and cultural as well as literary framework, exploring the ways these writers treat their particular communities and tradi-



# Women's Studies

tions and their various experiences as Americans.—Q. Prettyman.  
3 points. Tu Th 2:40-3:55. II/H

**English-Women's Studies EWS BC 3145x. The Female Protagonist: Readings in the French and English Novel.**  
The heroine and the representations of a female destiny in selected works by women writers; the texts will be studied in conjunction with contemporary feminist criticism. Lafayette, Wollstonecraft, Austen, Sand, Brontë, Eliot, Colette, Wittig.—S. Fraiman  
3 points. Tu 4:10-6:00. III/H

**Philosophy-Women's Studies PWS BC 3147y. Philosophical Issues of Feminist Theory.**  
The issue of women's distinct nature is raised in light of radical feminist, traditional Marxist feminist, and contemporary socialist feminist theories.—Instructor to be announced.  
*Offered in 1987-88.*  
3 points.

**WOMEN'S STUDIES COURSES IN OTHER DEPARTMENTS AND PROGRAMS.**  
Students should consult the departmental and program listings for course descriptions.

**Anthropology ANT V 3012x. Sex-roles in Cross-Cultural Perspective.**  
Instructor to be announced.

**Classical Civilization CLC V 3158y. Women in Antiquity.**  
H. Foley.  
*Offered in 1987-88.*

**Comparative Literature-French CPF G 4630x. Women Writers and the Novel.**  
N. Miller.

**East Asian EAS V 3635x. Women in Japanese Literature, Language and Culture.**  
B. Ruch.

**Economics ECO BC 2010x. Sex, Discrimination, and the Division of Labor.**  
Staff.

**English ENG W 3400x. American Feminist Texts.**  
A. Douglas.

**English ENG C 3971y. Seminar in Feminist Literature.**  
C. Heilbrun.

**English ENG BC 3997x. Senior Seminar: American Women Writers.**  
A. Bendixen.  
*Registration limited.*

**English ENG W 4610y. Feminist Texts in American Literature.**  
A. Douglas.

**English ENG G 6510x. Feminist Texts: Biography.**  
C. Heilbrun.

**English ENG W 4920y. Ideology of Gender.**  
S. Winnett.

**English ENG G 6603y. Graduate Seminar: American Feminist Texts.**  
A. Douglas.

**English ENG G 6035y. Women in Medieval Life and Literature.**  
J. Ferrante.

**French FRE BC 3047x. French Women Writers.**  
E. Dezon-Jones.

**French FRE BC 3052x. Seminar for Senior Majors: George Sand.**  
T. Greene.

**German GER BC 3061x. Seminar: Christa Wolf and Ingeborg Bachmann.**  
B. Bradley.

**German GER W 3448x. Women in 19th-Century Literature.**  
K. Benthin.

**History HIS W 3992x. Marriage, Gender and Work in 20th-Century African History.**  
M. Wright.

**History HIS BC 3409y. Monasticism in the Middle Ages.**  
S. Wemple.

**History HIS BC 3082x. History of Women in America since 1890..**  
R. Rosenberg.

# Women's Studies

**History HIS BC 3987x. Women in Industrial Society in Europe from 1750.**  
R. Moeller.

**History HIS W 3789y. Case Studies in Women's Collective Action in Modern Europe: 1750-1945.**  
R. Moeller.

**History HIS W 3891x. Women in 20th Century America.**  
E. Blackmar.

**Italian ITA V 3440y. Feminism in Italian Literature and Culture.**  
M. Alaia.  
*Not offered in 1986-87.*

**Medieval and Renaissance Studies MRS BC 3086y. Women in the Middle Ages: Ideals and Reality.**  
J. Rosenthal and S. Wemple.  
*Not offered in 1986-87.*

**Political Science POS V 3328x. Women and American Politics.**  
E. Klein.

**Psychology PSY BC 3152. Psychological Aspects of Human Sexuality.**  
W. McKenna.

**Psychology PSY BC 3371x. Psychology and Women.**  
J. Blackman.

**Religion REL V 3700y. Women and Religion.**  
C. Deutsch.

**Religion REL V 3803x. Gender Roles in the Hebrew Bible.**  
C. Deutsch.

**Russian RUS V 1225y. Russian Women—Myth and Reality.**  
M. Astman.  
*Offered in 1987-88.*

**Sociology SOC V 3303y. Female and Male: A Sociological Perspective.**  
M. Komarovsky.

**Sociology SOC G 4018x. Sex roles and Society.**  
V. Zelizer.

**Sociology SOC V 3555y. Sociology of Family Institutions.**  
V. Zelizer.

**Sociology SOC W 4203y. Comparative Social Policy: Women in Advanced Industrialism.**  
M. Ruggie.

**Spanish SPA BC 3011x. Contemporary Women Poets of Latin America.**  
A. Pizarro Rayo.

**Spanish SPA W 3468y. Special Topics in Spanish-American Literature: Public Man and Private Woman.**  
J. Franco.

## RECOMMENDED COURSES OF RELATED INTEREST TO WOMEN'S STUDIES

These courses do not count for major credit, but do focus in part on women's issues and issues of gender.

**Education EDU BC 2032x. Contemporary Issues in Education.**  
S. Sacks.

**English ENG BC 3999x. Literary Theory.**  
M. Jaanus.  
*Offered in 1987-88.*

**English ENG C 3971y. Studies in Modern British Literature.**  
C. Heilbrun.

**English ENG W 4623y. Afro-American Poetry.**  
M. Blount.

**Experimental Studies EXS BC 3001x, EXS BC 3002y. Seminar.**  
J. Dulchin.

**French FRE W 3456x. Introduction to French Civilization.**  
A. Kaplan.

**French FRE BC 3035x. Eighteenth Century French Fiction.**  
R. Geen.

**History HIS BC 3066x. America in the Gilded Age.**  
M. Carnes.  
*Not offered in 1986-87.*



# Women's Studies

**History HIS BC 3432y. History of Childhood in America.**

M. Carnes.

*Not offered in 1986-87.*

**History HIS W 3910x. Family and Sexuality in the Graeco-Roman World.**

W. Harris.

**Political Science POS BC 3007x. Modern Political Movements.**

L. Calman.

**Political Science POS BC 3013x, 3013y. Political Theory.**

D. Dalton.

## FRESHMAN SEMINAR

Freshmen interested in Women's Studies may wish to select their Freshman Seminar from the Women in Literature and Culture cluster. See page 149.

## STUDY IN PARIS

### WOMEN'S STUDIES INSTITUTE

The Columbia/Barnard Reid Hall Program's Women's Studies Institute, offered in conjunction with the Women's Studies Program at Barnard College, is the first women's studies program in France sponsored by an American university.

Institute prerequisites: French BC 3021, BC 3022 or the equivalent, plus two semesters of work in Women's Studies.

**French-Women's Studies FWS H 3450y. Contemporary French Thought and Feminist Theory.**

Emphasis on the issues of gender as they affect the production of and responses to theoretical and literary texts.—Instructor to be announced.

*Prerequisite: French BC 3021, BC 3022, or the equivalents, plus two semesters of work in Women's Studies.*

*4 points. Hours to be arranged.*

**French FRE H 3442y. Advanced Practice in the French Language: Grammar and Composition.**

Morphology and syntax. Thematic readings are used for analysis and oral reports as well as for intensive training in composition. Four hours per week. Fifteen weeks.—Instructor to be announced.

*4 points. Hours to be arranged.*

**French FRE H 3992y. Supervised Study in the French University System.**

Special study in the French university system under the supervision of the Director of Studies. This course is structured with the flexibility to permit either further concentration in Women's Studies or distribution into other areas.—Instructor to be announced.

*3 points. Hours to be arranged.*

**History-Women's Studies HWS H 3550y. Women and Society in France.**

Although the theme of this course will vary from one year to another, it will consistently focus on some aspect of women and society. Instructor to be announced.

*Prerequisite: French BC 3021, BC 3022, or the equivalents, plus two semesters of work in Women's Studies.*

*4 points. Hours to be arranged.*

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B.A., Wesleyan; M.A., Ph.D., University of California at Berkeley
- Barbara S. Schmitter, 1957, Vice President and Dean for Student Affairs,  
and Associate Professor of Psychology  
A.B., Nebraska; M.A., Columbia
- Lawrence J. Aber, 1981, Assistant Professor of Psychology  
B.A., Harvard; M.A., Ph.D., Yale
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A.B., Barnard; M.A., New York University; Ph.D., Columbia
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B.A., City College of New York; Ph.D., Cornell
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B.A., State University of New York at Stony Brook; M.A., Ph.D., North Carolina
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B.A., Brandeis; Ph.D., State University of New York at Stony Brook
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A.B., M.A., Ph.D., Harvard
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B.A., Oberlin; M.A., M. Phil., Yale; Ph.D., Yale
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B.A., Wesleyan; M.A., Yale
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B.A., State University of New York at Binghamton; M.A., Ph.D., North Carolina
- Maria Cristina Bicchieri, 1983, Assistant Professor of Economics  
Dottore in Filosofia; M.A., Ph.D., Cambridge
- Joan S. Birman, 1973, Professor of Mathematics  
A.B., Barnard; M.A., Columbia; Ph.D., New York University
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B.A., Queens College
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B.A., Cornell; M.A., M. Phil., Columbia
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Licence, University of Geneva; M.A., Toronto; Ph.D., Columbia
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A.B., Russell Sage; M.A., Columbia
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A.B., Smith; Ph.D., Indiana
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B.A., Boston University; M.A., Middlebury; Ph.D., New York University
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Doctor of Phil. of Law, Turin
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B.A., Wellesley; S.M., M.L.S., Simmons
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Candid. en Droit, Brussels; M.A., Ph.D., Columbia
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B.S., University of Illinois; Ph.D., Massachusetts Institute of Technology
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A.B., Vassar; Ph.D., Harvard
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B.A., Chicago; Ph.D., Harvard
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Ph.D., U. Wales Institute Science
- Olympia T. Jebejian, 1969, Associate in Chemistry  
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B.E., M.E., Yale; M.A., Ph.D., Columbia
- Tatiana Keis, 1967, Reserve Librarian  
A.B., M.L.S., Columbia
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B.A., M.A., University of Nice
- Grace W. King, 1960, Lecturer in Chemistry  
A.B., Maine; Ph.D., Yale
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A.B., Barnard; M.A., Ph.D., Columbia;  
B.D., Union Theological Seminary; J.D., Fordham
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School of Commerce, Yugoslavia
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B.A., M.A., New York University
- Maristella de Panizza Lorch, 1951, Professor of Italian  
Dott. in Lett. e. Filos., Rome
- Alfred MacAdam, 1983, Professor of Spanish  
B.A., Rutgers; M.A., Ph.D., Princeton
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A.B., Toronto; M.A., Ph.D., Radcliffe
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B.A., Vassar; M.A., M.Phil., Ph.D., Yale
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B.A., M.A., Ph.D., Columbia
- Cynthia Novack, 1978, Associate in Dance  
B.A., University of California at Berkeley
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A.B., Barnard; M.A., Ph.D., Radcliffe
- Dorothea Nyberg, 1968, Associate Professor of Art History  
A.B., Toronto; M.A., Ph.D., New York University
- Brian O'Doherty, 1970, Adjunct Professor of Art History  
M.B., MC.H., D.P.H., University College, Dublin; M.Sc., Harvard
- Anita Parzencsewski, 1982, Lecturer in English  
B.A., Barnard; M.A., Ph.D., Columbia
- Christine Marie Patten, 1985, Associate in Physical Education  
B.A., Purdue; M.S., Iowa State
- Remington P. Patterson, 1955, Professor of English  
A.B., M.A., Ph.D., Yale
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A.B., M.A., Ph.D., Columbia
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B.A., Colby; Ph.D., Columbia
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B.A., Yale; M.Phil., Ph.D., Columbia
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B.A., West Virginia University; M.A., Pennsylvania State University
- Anne Lake Prescott, 1959-62; 1963, Professor of English  
A.B., Barnard; M.A., Ph.D., Columbia
- Quandra Prettyman, 1970, Associate in English  
A.B., Antioch

# Organization

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B.A., State University of New York at Buffalo; Ph.D.,  
University of California at San Diego
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B.A., Barnard; M.A., Ph.D., University of Pennsylvania
- Nicholas Rango, 1978, Samuel R. Milbank Associate Professor of Health and Society  
B.S., St. Louis; M.D., Northwestern
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B.A., Stanford University; M.A., University of Virginia
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B.A., Ph.D., Stanford University
- Jane H. Rosenthal, 1952-55; 1971, Associate Professor of Art History  
A.B., Douglass; Ph.D., Columbia
- Abraham Rosman, 1966, Professor of Anthropology  
A.B., City College of New York; Ph.D., Yale
- Nan Rothschild, 1981, Assistant Professor of Anthropology  
B.A., Vassar; M.A., Columbia; Ph.D., New York University
- Perla Rozencvaig, 1977, Instructor in Spanish  
B.A., M.A., Ph.D., Columbia
- Paula G. Rubel, 1967, Professor of Anthropology  
A.B., Hunter; Ph.D., Columbia
- Mary Ruggie, 1981, Assistant Professor of Sociology  
B.A., M.A., Ph.D., University of California at Berkeley
- Susan Riemer Sacks, 1971, Lecturer in Education  
A.B., Northwestern; M.A., Western Reserve; Ph.D., Columbia
- Gertrud M. Sakrawa, 1952, Professor of German  
Ph.D., Vienna; M.A., Ph.D., Columbia
- Cynthia Saltzman, 1985, Instructor in Anthropology  
B.A., Bennington College; M.A., Columbia
- John E. Sanders, 1969, Professor of Geology  
A.B., Ohio Wesleyan; Ph.D., Yale
- Anatol K. Saprnow, 1966, Associate in Russian  
Russian Gymnasium, Munich
- Marianna Greene Saprnow, 1967, Associate in Russian  
Russian Gymnasium, Munich
- Celeste Schenck, 1977, Assistant Professor of English  
A.B., Princeton; M.A., Ph.D., Brown
- Flora Schiminovich, 1977, Lecturer in Spanish  
B.A., City College of New York; M.A., Ph.D., Hunter
- Peter Schubert, 1970, Instructor in Music  
A.B., M.A., Columbia
- Alan Segal, 1980, Professor of Religion  
B.A., Amherst; M.A., Brandeis; Ph.D., Yale



# Organization

- Bernice Segal, 1958, Professor of Chemistry  
A.B., Radcliffe; Ph.D., Columbia
- Daniel Selden, 1984, Assistant Professor of Classics  
B.A., Ph.D., Yale
- Mirella d'Ambrosio de Servodidio, 1964, Professor of Spanish  
B.A., Barnard; M.A., Ph.D., Columbia
- William Sharpe, 1984, Assistant Professor of English  
B.A., Columbia; M.A., Oxford; Ph.D., Columbia
- Mary Lewis Shaw, 1985, Instructor in French  
B.A., University of Arizona; M.A., Columbia
- Marvin Shulman, 1968-69; 1975, Senior Associate in German  
B.A., Coe; M.A., Columbia
- Rae Silver, 1976, Professor of Psychology  
B.A., McGill; M.A., City University of New York; Ph.D., Rutgers
- Brian Smith, 1983, Assistant Professor of Religion  
B.A., Macalester College; M.A., Ph.D., University of Chicago
- Janet Soares, 1968, Senior Associate in Dance  
B.S., Juilliard; M.A., Columbia
- Natalie Sonevytsky, 1959, Reference Librarian  
A.B., New Rochelle; M.S., Columbia
- Dennis Stevenson, 1980, Assistant Professor of Biology  
B.A., M.A., Ohio; Ph.D., University of California at Davis
- Sandra Stingle, 1967, Adjunct Assistant Professor of Psychology  
A.B., Barnard; Ph.D., Columbia
- Carole Swick, 1981, Adjunct Assistant Professor of Environmental Science  
B.A., University of California at Los Angeles; MLA, University of Pennsylvania
- Timea Szell, 1979, Instructor in English  
A.B., Barnard; M.A., Columbia
- Janice Thaddeus, 1956, Adjunct Associate Professor of English  
A.B., Barnard; Ph.D., Columbia
- Barbara L. Tischler, 1985, Visiting Assistant Professor of History  
B.A., Douglass College; M.A., Ph.D., Columbia
- Tobi Tobias, 1977, Adjunct Associate Professor of Dance  
B.A., Barnard; M.A., New York University
- Robert S. Tragesser, 1984, Assistant Professor of Philosophy  
B.A., Franklin & Marshall College; Ph.D., William Marsh Rice University
- Zoya Trifunovich, 1959, Associate in Russian  
B.S., M.A., Columbia
- Mary Ellen Tucker, 1970, Acquisitions Librarian  
B.A., Barnard; M.L.S., Columbia
- Barry Ulanov, 1951, Professor of English  
A.B., Ph.D., Columbia; Litt.D., Villanova
- John Vitkus, 1986, Instructor in Psychology  
B.A., Northwestern
- Joan E. Vincent, 1968, Professor of Anthropology  
B.Sc., London School of Economics; M.A., Chicago; Ph.D., Columbia
- Frederick E. Warburton, 1963, Associate Professor of Biology  
B.Sc., M.Sc., Ph.D., McGill
- Shelley Beth Weinstock, 1985, Assistant Professor of Chemistry  
A.B., Bard College; Ph.D., Massachusetts Institute of Technology

# Organization

- Marcia L. Welles, 1970 Associate Professor of Spanish  
A.B., Barnard; M.A., Middlebury; Ph.D., Columbia
- Suzanne F. Wemple, 1966, Professor of History  
A.B., University of California at Berkeley; M.L.S., Ph.D., Columbia
- Katherine E. Wilcox, 1961, Associate in Education  
A.B., City College of New York
- Christina L. Williams, 1980, Assistant Professor of Psychology  
B.A., Williams; Ph.D., Rutgers
- Clara Ching-Hsien Wu, 1974, Lecturer in Chemistry  
B.S., National Taiwan University; M.S., University of Virginia;  
Ph.D., Carnegie Institute
- Kathryn Yatrakis, 1982, Assistant Professor of Urban Affairs and Political Science  
B.A., Cedar Crest College; M.A., New York University; Ph.D., Columbia
- Palle Yourgrau, 1985, Assistant Professor of Philosophy  
B.A., Cornell; Ph.D., University of California at Los Angeles
- Viviana A. Zelizer, 1978, Professor of Sociology  
B.A., Rutgers; M.A., M.Phil., Ph.D., Columbia

## Faculty Emeriti

- Helen R. Downes, 1933-1960, Professor Emeritus of Chemistry  
Ph.D.
- Amelia A. de del Rio, 1930-1962, Professor Emeritus of Spanish  
Ph.D.
- Millicent C. McIntosh, 1947-1962, President Emeritus  
Ph.D., LL.D., Litt.D., L.H.D.
- Lucyle Hook, 1948-1967, Professor of English  
Ph.D.
- Eugenio Florit, 1945-1969, Professor Emeritus of Spanish  
D. en D.
- Jean T. Palmer, 1946-1969, General Secretary Emeritus  
A.B.
- Henry A. Boorse, 1937-1970, Professor Emeritus of Physics  
Ph.D.
- Julius S. Held, 1936-1970, Professor Emeritus of Art History  
Ph.D.
- Mirra Komarovsky, 1934-1970, Professor Emeritus of Sociology  
Ph.D.
- Emma Dietz Stecher, 1945-1971, Professor Emeritus of Chemistry  
Ph.D.
- Theodor H. Gaster, 1966-1972, Professor Emeritus of Religion  
Ph.D., D.D., L.H.D., Litt.D.
- Eleanor Rosenberg, 1953-1973, Professor Emeritus of English  
Ph.D.
- Raymond J. Saulnier, 1938-1973, Professor Emeritus of Economics  
Ph.D., LL.D.
- George Woodbridge, 1960-1973, Professor Emeritus of History  
Ph.D.
- Marion Hamilton Gillim, 1952-1974, Professor Emeritus of Economics  
Ph.D.



# Organization

- Basil Rauch, 1941-1974, Professor Emeritus of History  
Ph.D.
- John Kouwenhoven, 1946-1975, Professor Emeritus of English  
Ph.D.
- Joseph Gerard Brennan, 1947-1976, Professor Emeritus of Philosophy  
Ph.D., L.H.D.
- Helen Phelps Bailey, 1933-1977, Professor Emeritus of French  
Ph.D.
- Donald D. Ritchie, 1948-1979, Professor Emeritus of Biological Sciences  
Ph.D.
- Eleanor M. Tilton, 1950-1979, Professor Emeritus of English  
Ph.D.
- LeRoy C. Breunig, 1953-1980, Professor Emeritus of French  
Ph.D.
- Richard A. Norman, 1954-1981, Professor Emeritus of English  
Ph.D.
- David A. Robertson, Jr., 1940-1981, McIntosh Professor Emeritus of English  
Ph.D.
- Margarita Ucelay, 1943-1981, Professor Emeritus of Spanish  
Ph.D.
- Chilton Williamson, 1942-1982, Professor Emeritus of History  
Ph.D.
- Leonard Zabler, 1955-1982, Professor Emeritus of Geography  
Ph.D.
- Jeanette S. Roosevelt, 1951-58; 1962-1986, Professor Emeritus of Dance  
Ph.D.

## Officers of Administration

- Ellen V. Futter, J.D., President of Barnard College and Dean in the University
- Charles S. Olton, Ph.D., Vice President for Academic Affairs and Dean of the Faculty and Associate Professor of History
- Sigmund G. Ginsburg, M.P.A., Vice President for Finance and Administration
- Barbara S. Schmitter, M.A., Vice President and Dean for Student Affairs and Associate Professor of Psychology
- Dorothy C. Weinberger, A.B., Vice President for Public Affairs
- Kathryn J. Rodgers, J.D., General Counsel

### Office of the President

- Olga M. Hughes, A.B., Secretary to the Board of Trustees
- Sandra Smyth, Administrative Assistant to the President
- Diana B. Beaudoin, M.Ed., Assistant to the President

### Office of the Vice President for Academic Affairs and Dean of the Faculty

- Barbara Ann Hill, Ph.D., Associate Dean of the Faculty
- Gwendolyn Williams, Administrative Assistant to the Dean

# Organization

## **Office of the Vice President for Finance and Administration**

Helen Vanides, Director of Budget and Planning

Lewis Wyman, B.A., Director of Institutional Studies and Administrative Projects

## **Office of the Vice President and Dean for Student Affairs**

Susan F. Cohn, Ph.D., Assistant to the Vice President

## **Office of the Vice President for Public Affairs**

Linda Edlow, Executive Assistant

## **Office of the General Counsel**

Mary Van Starrex, A.B., Administrative Assistant

## **Office of Admissions**

R. Christine Royer, M.A., Director

Elizabeth A. Bothamley, Ph.D., Associate Director

Elizabeth A.C. O'Shea, Associate Director

Jodine F. Deveaux, Computer Operations Administrator

## **Office of Alumnae Affairs**

Irma Socci Moore, A.B., Director

Eva Miodownik Oppenheim, A.B., Associate Director

Toni Crowley Coffee, A.B., Editor, **Barnard Alumnae**

Yvonne S. Untch, Records Management Officer

## **Office of Facilities Services**

James Z. Metalios, M.C.E., Director, Facilities Services

Drew Van Hook, Director of Physical Plant

Joseph R. Dattilo, Manager, Housekeeping, Custodial Services and Special Events

Ifill Antoine, Assistant Manager, Housekeeping

John Dowling, Manager, Plant Maintenance

## **Office of Career Services**

Martha Green, M.S., Director

Jane Celwyn, M.A., Associate Director

Elayne Garrett, Ph.D., Student Employment Officer

Judith Monachina-Dunn, B.A., Internship Program Coordinator

Daphne-Muscarella, B.A., Corporate Recruitment Program Coordinator

## **Office of College Activities**

Peggy M. Streit, M.A., Director

## **Controller's Office**

Thomas W. Lyons, C.P.A., Controller

Stefanie Waldman, B.S., Assistant Controller

Holton Smith, Assistant Controller for Restricted Funds and Investments

Betty Denkinger, Bursar

Barbara H. Robbins, Accounts Payable Supervisor

Ethel Yang, Payroll Supervisor

Ricky White, Associate Bursar

Elaine Oliver, Accountant

## **Office of the Dean of Studies**

Vilma M. Bornemann, M.A., Dean of Studies

Marjorie H. Dobkin, M.A., Associate Dean of Studies/Junior Class Dean

Grace W. King, Ph.D., Senior Class Dean

Katherine Wilcox, B.A., Sophomore Class Dean

Dorothy Denburg, M.A., M.Ed., Ed.D., Freshman Class Dean

Esther Rowland, M.A., Dean for Pre-Professional Students

Doris L. Campbell, A.B., Assistant Dean for Transfer Services

Marjorie Croes Silverman, Ph.D., Staff Associate

Quandra Prettyman, B.A., Assistant Dean for Foreign Students



# Organization

## **Office for Disabled Students**

Julie V. Marsteller, A.B., Dean for Disabled Students  
Susan E. Quinby, M.A., Associate Director  
Jane Thierfeld, M.S., M.A., Project Manager  
Grace Gibbons, B.A., Project Assistant  
John Tone, M.A., M.Phil., Secretary

## **Development Office**

Regina Kemp, A.B., Research Officer  
Elida Rivas-Conti, A.B., Associate Information Officer  
Michael Pleters, A.B., Grants Officer  
Lore Silberman Sax, B.A., Annual Fund Officer

## **Office of Financial Aid**

Suzanne Clair Guard, B.A., Director  
Edward R. Gray, B.A., Associate Director  
Susan V. Lee, B.A., Associate Director

## **Health Services**

Harriette R. Mogul, M.D., Director of Health Services  
Audrey-Jean Sheehy, M.D., Medical Director  
Promise Ahlstrom, M.D., Staff Physician  
Marjorie Beck, M.D., Staff Physician  
Robert Bernstein, M.D., Staff Physician  
Kay English, M.D., Staff Physician  
Sanford Melzer, M.D., Staff Physician  
Nancy Reuben, M.D., Staff Physician  
Annie Steinberg, M.D., Staff Physician  
Zira DeFries, M.D., Director of Mental Health Services  
Margaret Backman, Ph.D., Staff Psychologist  
Barbara Gibbs, M.D., Staff Psychiatrist  
Giselle Harrington, Ed.D., Staff Psychological Counselor  
Jeanne LeBlanc, M.A., Staff Psychological Counselor  
Marian Malcolm, M.D., Staff Psychiatrist  
Camillo L. Gugliucci, M.D., Consulting Gynecologist  
Shera Aranoff, M.D., Consulting Dermatologist  
Ileane Lubell, R.N., M.S., Women's Health Specialist  
Arleen Eisman, R.N., Nurse  
Theresa O'Rourke, R.N., B.A., Nurse

## **Office of the Higher Education Opportunity Program**

Vivian A. Taylor, A.B., Ed.M., Director, H.E.O.P.  
Francesca Cuevas, A.B., Assistant Director/Counselor  
Lisa DeLeon, A.B., Counselor

## **Language Laboratory**

Ersi L. Breunig, Director

## **Wollman Library**

Elizabeth M. Corbett, M.S., College Librarian  
Tatiana Keis, M.S., Reserve Room Librarian  
Stephanie M. Krstulovic, Technical Services Librarian  
Christina Bickford, M.S., Media Services Librarian  
Natalia Sonevitsky, M.S., Reference Librarian  
Mary Ellen Tucker, M.S., Acquisitions Librarian  
Mary Giunta, M.S., Collection Management Librarian  
Karen Dobrusky, M.S., M.P.H., Assistant Reference Librarian

# Organization

## **Office of Management Information Systems**

Frank L. Weiss, Ph.D., Director  
Richmond Sweet, M.B.A., Assistant Director  
Fran Thompson, Consultant/Analyst  
Joe Vargas, B.S., Consultant/Analyst  
Lori Moffitt Hayez, M.A., Consultant/Analyst  
Cheryl Byerle, M.A., Computer Operator  
Mercedes Correa, Secretary to Director of MIS

## **Office Services**

Winifred Price, Director  
Myrtle Tate, B.S., Associate Director

## **Personnel Office**

William S. Brown, M.A., M.B.A., Director  
Rhondda Tewes, B.S., Associate Director  
Beth Josephson, B.S., Recruitment Coordinator

## **Office of Public Relations**

Sallie Y. Slate, B.A., Director  
Christy, D. Hicks, B.S., Associate Director

## **Office of Purchases and Stores**

John R. Helleis, C.P.M., Director

## **Office of the Registrar**

Virginia Shaw, A.B., Registrar and Secretary to the Faculty  
Betty Brummett, M.Phil., Associate Registrar

## **Office of Residential Life**

Ione G.W. Gatch, Dean of Student Life  
Jeannette Ruffins, Associate Dean  
Jesslyn Cleary, Associate Director of Student Life  
Gloria Anderson, Secretary  
Ada L. Sinacore, Resident Director, Brooks, Hewitt, Reid  
Jil Persons, Resident Director, Plimpton Hall  
Nancy Ludwig, Resident Director, 600, 616, 620, West 116th Street  
Beth Kneller, Resident Director, 49 Claremont  
Elizabeth Toepfer, Resident Director, Lucerne

## **Office of Safety and Security**

John Scacalossi, M.A., Director  
Betty Weems, Associate Director  
Joseph Barron, Security Supervisor  
James Kelly, Security Supervisor

## **Office for Special Academic Programs**

Flora Davidson, Ph.D., Dean  
Jo Hamm, B.A., Assistant to the Dean

## **Office of Summer Programs**

Jean McCurry, B.A., M.A., Director  
Eileen Macholl, B.A., M.A., Assistant to the Director

## **Women's Center**

Temma Kaplan, Director  
Janie Kritzman, Associate Director



# XIV. The Associate Alumnae

The Associate Alumnae of Barnard College is comprised of 26,500 members from all fifty states of the Union and more than 63 countries abroad. Members include all who have completed a year or more of study at Barnard and have left in good academic standing as well as those who hold a Barnard degree. There are no alumnae dues. Barnard alumnae regularly receive *Barnard Alumnae* magazine, *Barnard Reporter* newsletter, and invitations to alumnae events and other annual academic and career programs.

**The Associate Alumnae** serve the College in three important ways: keeping local high school students informed about Barnard; interpreting Barnard to the community in general; and voluntarily aiding in the support of the College.

**Barnard Alumnae Council**, a nationwide group of alumnae leaders, meets annually on campus for the exchange of ideas and to receive updated information on the College so they may continue to represent Barnard effectively.

More than 50 clubs and informal local groups of Barnard alumnae in the United States and abroad form a network that makes it possible for Barnard alumnae to find one another. Alumnae traveling or moving to a new location may call the Office of Alumnae Affairs for alumnae contacts in the United States and abroad.

**The Associate Alumnae** is governed by a 20 member board elected annually by all Barnard alumnae. Four alumnae are elected to represent the Associate Alumnae on the Board of Trustees of Barnard College. The central office of the Associate Alumnae is the Office of Alumnae Affairs on campus.

**Officer of the Associate Alumnae**  
Elise Alberts Pustilnik, President

**Directors**  
Loretta Tremblay Azzarone  
Jacqueline Fleming  
Rosalind Marshack Gordon  
Linda Krakower Greene  
Patricia N. Hunter  
Harriet Kaye Inselbuch  
Anne Keating  
Bette Kerr  
Carol Murray Lane  
Margaret Zweig Lee  
Mary Louise Lempert  
Susan Levenson  
Joyce Pollack Montgomery  
Gwyneth MacKenzie Murphy  
Teresa Sivilli  
Elizabeth Westcott

**Alumnae Trustees**  
Olga Bendix  
Ruth Schachter Morgenthau  
Elise Alberts Pustilnik  
Anna Quindlen

**Office of Alumnae Affairs**  
Irma Socci Moore, Director  
Eva Miodownik Oppenheim, Associate Director  
Toni Crowley Coffee, Editor, *Barnard Alumnae*  
Yvonne S. Untch, Alumnae Records Officer





# XV. Barnard Area Representatives

**Barnard Area Representatives** (BARs) are qualified alumnae appointed by the Admissions and Alumnae Offices who act in liaison capacity between the College and prospective students, parents, and high school counselors. BARs frequently attend college information meetings at secondary schools, host informal gatherings for prospective students, and conduct local interviews. High school students considering Barnard and interested in speaking with a BAR may arrange an interview by writing to the individual nearest them. A listing of the BARs follows.

## Arizona

Marilyn M. Brooks  
701 E. Hayward, Phoenix 85020

Mrs. Renee Gerstman  
1011 W. Las Palmaritas, Phoenix 85021

## Arkansas

Mrs. Norman E. Holcomb  
2900 N. Pierce, Little Rock 72207

## California

Eloise Ashby Andrus  
2130 San Vito Circle, Monterey 93940

Anne E. Aull (Mrs. Larry)  
208 Madrone Avenue, Larkspur 94939

Shoshana Bar-Lev  
7996 Laurelridge Road, San Diego 92120

Mrs. Robert Bradbury  
4617 Minnesota Avenue, Fair Oaks 95628

Emily M. Chervenik  
1606 Shoreline Drive, Santa Barbara 93109

Barbara Bergman Goltz  
4240 Arguello Street, San Diego 92103

Joan B. Gruen  
1045 Mariposa, Berkeley 94707

Susan Romer Kaplan  
74 El Camino Real, Berkeley 94705

Toby S. Levy  
26 South Park, San Francisco 94107

Mrs. Pamela Munro-Favere  
5622 Harold Way #D, Los Angeles 90028

Elizabeth Thompson Ortiz, DSW  
26222 Cedar Grove Court, San Juan Capistrano 92675

Jeannette B. Price  
3555 Broderick Street #105, San Francisco 94123

Mrs. Max Semel (Rita)  
928 Castro Street, San Francisco 94114

Gladys Sessler  
3071 Buena Vista Way, Berkeley 94708

## Colorado

Mrs. Carl C. Zier  
7173 Four Rivers Road, Boulder 80301

# Barnard Area Representatives

## Connecticut

Marian Bradley  
49 Larbert Road, Southport 06490  
Dorothy Chen-Courtin  
57 Rock Hill Road, Woodbridge 06525  
Daria Friel, DMD  
580 Mt. Vernon Road, Southington 06479  
Mrs. Sally S. Lindsay  
10 Outer Road, S. Norwalk 06854  
Barbara Cain Rucci  
30 Granite Street, New London 06320  
Sara Miller Trachten  
80 Woodside Terrace, New Haven 06515

## Delaware

Mrs. Harold P. Bodenshtab  
30 Paxon Drive, Penarth, Wilmington 19803  
Esther Melnick Timmeney  
2818 Landon Drive, Wilmington 19810

## District of Columbia

Arden S. Ruttenberg  
4735 Butterworth Place NW, Washington 20016  
Dale Freed Sonnenberg  
3201 Cathedral Avenue NW, Washington 20008

## Florida

Mrs. Roscoe T. Foust  
2 Capri 507/2871 Ocean Boulevard, Boca Raton 33431  
Dr. Linda McAlister  
409 N. Gadsen #109, Tallahassee 32301  
Mrs. Warren H. Siegel  
11111 Biscayne Boulevard, N. Miami 33161  
Donna Young Waller  
3333 NW 5 Street, Gainesville 32609

## Georgia

Norma Appel  
92 Springlake Place, Atlanta 30318  
Susan Bass Bolch  
4755 Northside Drive NW, Atlanta 30327  
Eleanor Holland Finley  
3777 Peachtree-Dunwoody Road NE, Atlanta 30342  
Mrs. Roanne L. Jaffe  
815 Overhill Court NW, Atlanta 30328  
Wendy S. Reilly (Mrs. Robert E.)  
P.O. Box 1031, Sea Island 31561



# Barnard Area Representatives

## Hawaii

Peggy Anne Siegmund (Mrs. Harry M.)  
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## Illinois

Hannah Dresner  
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Jane Stewart Heckman  
20 W. 533 Edgewood Road, Lombard 60148

Evalynn G. Hollander  
1750 N. Clark #1607, Chicago 60614

Donna Rudnick Lebovitz  
1128 Green Bay Road, Glencoe 60022

Alfonsina Rechichi  
2234 Ewing Avenue, Evanston 60201

## Iowa

Ms. Margaret Brennan  
645 44 Street, Des Moines 50312

Linda Kaufman Kerber  
425 Lexington Avenue, Iowa City 52240

## Kansas

Carol H. Sader  
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## Kentucky

Lea Hayes Fischbach (Mrs. John T.)  
11805 Arbor Drive E, Anchorage 40223

Ruth Lerman Fitzpatrick  
1728 Capital Plaza Tower, Frankfort 40601

## Louisiana

Kathleen Crandall Causey  
1206 Riverside Drive, Monroe 71201

Alice M. Jacobs  
902 Montegut Street, New Orleans 70117

## Maryland

Ms. Sharon B. Benzil  
308 Forbes Street #F, Annapolis 21402

Ms. Margaret F. Bowler  
8216 Rockdale Avenue, Baltimore 21207

Dr. Murrie W. Burgan  
6524 Gardenwick Road, Baltimore 21209

Mrs. Susan J. Jacobson Gaztanaga  
4410 Bowleys Lane #1B, Baltimore 21206

Sonya L. Gordon  
6300 Owen Place, Bethesda 20817

Mrs. Barry Koh  
12110 Ridge Valley Drive, Owings Mills 21117

# Barnard Area Representatives

Mrs. Lillian R. Miller  
4202 Blue Barrow Ride, Ellicott City 21043

Norma Garfen Pressman  
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Joyce Seidman Shankman  
9502 Clement Road, Silver Spring 20910

Ms. Barbara R. Stewart  
5783 Yellowrose Court, Columbia 21045

Mrs. Sheila Thaler  
2300 Crest Road, Baltimore 21209

Mrs. Miriam S. Zadek  
5911 Bonnie View Drive, Baltimore 21209

## Massachusetts

Diane Levine Gardener  
35 Stoneleigh Circle, Watertown 02172

Barbara G. Glazerman  
14 Perry Lane, Weston 02193

Mrs. Marvin A. Gordon  
163 Gun Hill Street, Milton 02186

Lesley Bunim Heafitz  
38 Little's Point Road, Swampscott 01907

Mrs. Herbert B. Hechtman  
3 Glenoe Road, Chestnut Hill 02167

Ann Dawson Johnson (Mrs. Charles L.)  
9 Hickory Drive, Florence 01060

Deborah Naima Margolis  
57 Strathmore Road #3, Brookline 02146

Bonnie Orlin  
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Adrienne Aaron Rulnick  
141 Wendell Avenue, Pittsfield 01201

Ms. Ruth B. Smith  
10 Dana Street #307, Cambridge 02138

Catherine Weisbrod  
203 Allston Street, Cambridge 02139

## Michigan

Patricia Zimmerman Levine  
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Mrs. John A. Lewis  
19526 Roslyn, Detroit 48221

Mrs. Margot C. Parker  
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Jean R.M. Rich  
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# Barnard Area Representatives

## Minnesota

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Ms. Bonnie M. Fleming  
2701 Dean Parkway, Minneapolis 55416

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Birgit Morris  
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Cheryl Foa Pecorella  
107 Walnut Drive, Tenaflly 07670

Lisa Deitsch Taylor  
Morris County Courthouse, Morristown 07460

Ms. C. Denise Y. Turner  
227 Danforth Avenue, Jersey City 07305

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Miss Angelita M. Anderson  
65 Acorn Avenue, Central Islip 11722

Claudia S. Bantz  
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Yvonne B. Bregman  
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Ms. Jean Miller Wilson  
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## Ohio

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Marjorie Lynn Aylem Sillery  
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Patricia Stephens  
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## Pennsylvania

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Joyce A. Monaco (Mrs. Eugene)  
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Suzanne Perrin  
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## Puerto Rico

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Cond. Villa Caparra Exec #3-B, Guaynabo 00657

## Rhode Island

Nancy Mayer  
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1605 Johnny Miller Trail, Austin 78746

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Mrs. Kathleen A. Claffy  
107 Woodhaven Lane, Seabrook 77586

Claudia Ellis Harbert  
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Marie Louise Lempert  
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Mary Davis Williams  
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## Virginia

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1200 N. Nash Street #1118, Arlington 22209

Mrs. Heth Owen Jr.  
3 Greenway Lane, Richmond 23226

Ms. Claire Tse  
4917 Americana Drive #208, Annandale 22003

## Washington

Mrs. Mary G. Lih  
2122 Harris/P.O. Box 923, Richland 99352

Jaynie Kozai Pleasants  
117 N. 92 Street, Seattle 98103

Ms. Margaret Wallace  
8515 SE 61 Street, Mercer Island 98040

## Wisconsin

Lynne Holland Kleinman  
6183 N. Berkeley Boulevard, Whitefish Bay 53217

Mrs. Terrence O. Norris  
731 Wisconsin River Drive, Port Edwards 54469

# Barnard Area Representatives

## FOREIGN COUNTRIES

### Canada

Paula Bercovitch  
4100 Trafalgar Road  
Montreal PQ H3Y 1R2

Ms. Wendy Bloch  
119 Elmridge Drive  
Toronto, ON M6B 1A6

### England

Dr. Lauren E. Storck  
North Villa Vale of Health  
London NW3 1AX

### France

Danielle Haase-Dubosc  
Reid Hall, 4 rue de Chevreuse  
Paris 75006

### Greece

Mrs. Theo Cacoullos  
Nikes 13 Paradisos  
Amaroussion 15125, Athens

### Hong Kong

Christine E. Mar  
4 South Bay Close, Apt. A-15  
Repulse Bay

### Israel

Mrs. Baruch J. Hurwich  
Shmaryahu Levin 31  
Jerusalem 96664

### Italy

Ms. Bethanie Turitz Alhadeff  
Via P. Sottocorno 16  
Milano 20129

### Netherlands

Mrs. Alice Ribbink-Goslinga  
Slotlaan 45, 3062 Pl

### Spain

Helen Versfelt Pastor (Mrs. Juan M.)  
Augustin De Foxa 19  
Madrid 28036

### Switzerland

Caroline A. Brown  
32 Ave des Tilleuls #22C  
1203 Geneva

Mrs. Donna Rabin Erstling  
Chemin Du Paradou  
1291 Commugny



# XVI. Scholarship Funds

## UNRESTRICTED

**Mary Allen Fund (1981).**

In memory of Ruth Marley.

**Neils J. Allison Fund (1964).**

From the estate of Beatrice C. Allison.

**Alumnae Fund (1922).**

**Arthur G. Altschul Fund (1984).**

**Anna E. Barnard Fund (1899).**

**Joan H. Baum Fund (1977).**

**Frances E. Belcher Fund (1963).**

**Ruth Marshall Billikopf Fund (1950).**

**Varian White Blumberg Fund (1952).**

**Elizabeth M. Bogardus Fund (1976).**

**Charles E. Bogert Memorial Fund and Anna Shippen Young Bogert Memorial Fund (1913).**

**Eva-Lena Miller Booth Fund (1932).**

**Dorothy S. Boyle Fund (1978).**

**Josephine Brand Fund (1970).**

**Brearley School Fund (1889).**

**Martha Ornstein Brenner Fund (1915).**

**Arthur Brooks Fund (1897).**

**Margaret Bullowa Fund (1979).**

**Elsa B. Bunn Fund (1980).**

**Elizabeth Hobe Burnell Fund (1971).**

**Fanny Steinschneider Clark Fund (1978).**

**Thomas F. Clark Students' Fund (1928).**

**Jennie B. Clarkson Fund (1898).**

**Class of 1918 Fund (1975).**

**Class of 1921 Fund (1931).**

**Class of 1925 Fund (1975).**

**Class of 1926 Fund (1981).**

**Class of 1930 Fund (1975).**

**Class of 1931 Memorial Fund (1981).**

**Class of 1933 Fund (1973).**

**Class of 1935 Fund (1975).**

**Class of 1936 Fund (1971).**

**Class of 1947 Memorial Fund (1982).**

**Class of 1953 Fund (1973).**

**Class of 1954 Fund (1955).**

**Class of 1959 Fund (1974).**

In memory of Jacqueline Zelniker Radin.

# Scholarship Funds

**Class of 1963 Fund (1983).**

**Class of 1981 Fund (1982).**

**Martine Cobanks Fund (1973).**

**College Bowl Fund (1968).**

**Yvonne Moen Cumerford Fund (1972).**

**Caryl M. Curtis Fund (1980).**

**Vera B. David Scholarships (1962).**

In memory of her late husband, John David.

**Ada M. Donelle Fund (1948).**

**L. Adele Dorsett Fund (1971).**

**Helen Geer Downs Fund (1974).**

**Amelia Cary Duncan Fund (1976).**

**May Parker Eggleston Fund (1977).**

**Betty Eisenstadt Fund (1982).**

In memory of Sarah and Israel Gillman and of Betty Eisenstadt.

**Sarah Engel Fund (1973).**

**Laura Teller Ericsson Fund (1976).**

**Margaret Jane Fischer Fund (1968).**

**Fiske Fund (1895).**

**Edyth Fredericks Fund (1974).**

**Clara Lillian Froelich Fund (1979).**

**Doris P. Gallert Fund (1970).**

**Galway Fund (1912).**

**Helen Jenkins Geer Fund (1940).**

**Anita Hyman Glick Fund (1968).**

**Irma Alexander Goldfrank Fund (1919).**

**Harriet Wilinsky Goodman and Sylvan A. Goodman Fund (1983).**

**Elsa Gottlieb Fund (1982).**

**Graham School Fund (1907).**

**Blanche Kazon Graubard Fund (1981).**

**Ethel C. Gray Fund (1973).**

**Louise H. Gregory Fund (1955).**

**Hetta Stapff Halloran Fund (1977).**

**Harkness Fund (1939).**

**Jane Harnett Fund (1978).**

**Helen May Smith Helmle Fund (1973).**

**Margaret Holland Fund (1975).**

**Rita Hilborn Hopf Memorial Fund (1966).**

**Charles Evans Hughes Fund (1952).**



# Scholarship Funds

Eleanor Levison Israel Fund (1976).  
Lucie Burgi Johnson Fund (1979).  
Lily Murray Jones Fund (1950).  
Mildred K. Kammerer Fund (1973).  
Peggy King Scholarship Fund (1986).  
Mirra Komarovsky Fund (1975).  
Lucile Wolf Koshland Fund (1980).  
Elsie M. Kupfer Fund (1975).  
Margaret Irish Lamont Fund (1978).  
Augusta Larned Fund (1924).  
Marjorie Hermann Lawrence Fund (1965/67).  
Yves LeMay Fund (1982).  
Harriett Mooney Levy Fund (1965).  
Joan Sperling Lewinson Fund (1955).  
Judith Lewittes Fund (1957).  
Anne Elizabeth Lincoln Fund (1963).  
Amy Loveman  
See Prizes, page 309.  
Louise Grace Luby and James Luby Fund (1947).  
Barbara Scoville Maarschalk Fund (1977).  
Jeanne S. Mattersdorf and Bertha Miller Memorial Fund (1970).  
Cecile Lehman Mayer Scholarship Fund (1962).  
Leo Mayer Fund (1972).  
Adele Duncan McKeown Fund (1973).  
Memorial Fund (1954).  
Dorothy E. Miner Fund (1977).  
Gladys Bateman Mitchell Fund (1980).  
William Moir Fund (1912).  
Gulli Lindh Muller Fund (1972).  
Caroline Church Murray Fund (1918).  
Annette Florence Nathan Fund (1947).  
Dora R. Nevins Fund (1969).  
Ann Whitney Olin Fund (1982).  
Dorothy Brockway Osborne Fund (1976).  
Lucretia Perry Osborn Fund (1940).  
Elizabeth Palmer Fund (1972).  
Jean T. Palmer Fund (1969).  
Josephine Bay Paul Fund (1978).  
Frances Moore Plunkert Fund (1973).

# Scholarship Funds

Lucy Powell Fund (1971).  
M. Gladys Quinby Fund (1961).  
Jacqueline Zelniker Radin Fund (1975).  
Eleanor Kaiser Reinheimer Fund (1976).  
Eva Rich Fund (1968).  
Peter C. Ritchie, Jr. Fund (1937).  
Margaret Miller Rogers Fund (1976).  
Caterina Ronzoni Fund (1986).  
Edith Lowenstein Rossbach Memorial Fund (1959).  
Carrie W. and Corine A. Rowe Fund (1979).  
Edna Heller Sachs Fund (1955).  
May and Edgar Salinger Fund (1971).  
In memory of Isaac and Eugenie Herrmann.  
Eleanor Butler Sanders Fund (1922).  
Anna M. Sandham Fund (1922).  
Katherine D. Schlayer Fund (1975).  
Schmitt-Kanefent Fund (1931).  
Scholarship Fund (1901).  
Katherine Flint Shadek Fund (1961).  
Dorothy Nolan Sherman Fund (1983).  
Anne Victoria Shutkin Fund (1983).  
Max Sloman Fund (1971).  
Emily James Smith Fund (1899).  
Frances M. Smith Fund (1974).  
Fred Curtis Smith Memorial Fund (1955).  
George W. Smith Fund (1906).  
Sylvia W. Stark Fund (1981).  
C.V. Starr Fund (1983).  
Claire Wander Stein Financial Aid Fund (1981).  
Edna Phillips Stern Fund (1952).  
Eleanor Holden Stoddard Fund (1977).  
Isabel Greenbaum Stone Fund (1957).  
Fannie Manwaring Sturtevant and Daniel Dwight Sturtevant Fund (1969).  
Solon E. Summerfield Foundation Fund (1960).  
Thrift Shop Scholarships (1938).  
From the Barnard Scholarship Unit of Everybody's Thrift Shop.  
Miriam Tobias Fund (1980).  
Veltin School Fund (1905).  
Florence Meyer Waldo Fund (1980).  
Alma F. Wallach Fund (1951).



# Scholarship Funds

**Dorothy Calman Wallerstein Fund (1976).**

**Ella Weed Fund (1895).**

**Hymen and Helen Werner Fund (1964).**

**Fern Yates Memorial Fund (1980).**

## RESTRICTED

**Patricia Leigh (Pat) Abbott Fund (1981).**

For a student or students, who have overcome serious physical difficulties.

**Mary Gertrude Edson Aldrich Fund (1916).**

To a senior who has shown high moral qualities.

**Axe-Houghton Fund (1977).**

For juniors or seniors with average of at least 3.0.

**Bertha R. Badanes Fund (1966).**

For children of New York City school teachers preferably from Brooklyn.

**Barnard College Club of Brooklyn Fund (1944).**

For a student from Brooklyn.

**The Barnard College Club of Detroit Fund (1958).**

Preferably for a new student from Metropolitan Detroit.

**Barnard College Club of Greater San Francisco Fund (1986).**

For a student preferably from the San Francisco Bay area.

**Barnard College Club of Houston Fund (1969).**

For students from the Houston area.

**Barnard College Club of New York Fund (1952).**

For a student from outside New York City.

**Barnard-in-Westchester Fund (1962).**

Preferably for students from Westchester County.

**Barnard School Alumnae Fund (1916).**

Preferably for nominees of the school.

**Willina Barrick Memorial Fund (1936).**

By the College Club of Jersey City for a graduate of a Jersey City secondary school.

**The Annette Kar Baxter Memorial Fund (1984).**

In memory of Annette Kar Baxter, '52, by her colleagues, students, classmates, and other friends. For students who have distinguished themselves in the study of some aspect of women's experience.

**Irving Berlin Fund (1950).**

For one or more Barnard students of foreign-born parentage.

**June Rossbach Bingham Fund (1976).**

For a Barnard student majoring in English, preferably one who is interested in pursuing a writing career.

**Ida Blair Memorial Fund (1937).**

Preferably for a student in political science.

**Thornton F. Bradshaw Fund (1986).**

For transfer students.

**Alice Marie-Louise Brett Fund (1930).**

For a senior specializing in French.

# Scholarship Funds

**William Tenney Brewster and Anna Richards Brewster Fund (1961).**

To be awarded in amounts not less than \$1,000 preferably.

**Anne Brown Endowment Fund (1939).**

For students from the City of New York.

**Carpentier Residence Fund (1919).**

For students who are not residents of New York City or its vicinity.

**Therese Cassel Fund (1973).**

For students born in New York City, preferably those whose mothers were born in New York City and attended Barnard College.

**Eliza Taylor Chisholm Memorial Fund (1901).**

Preference to nominees of the Alumnae Association of Miss Chisholm's School.

**C.I.T. Financial Corporation Fund (1979).**

In honor of Eleanor Thomas Elliott '48. For a student of economics, mathematics, or political science.

**Mrs. Henry Clarke Coe Fund (1910).**

By the New York City Colony of the National Society of New England Women, to a student from New England or of New England parentage.

**Class of 1919 Decennial Fund (1929).**

For a resident student.

**Class of 1926 Emergency Student Aid Fund (1976).**

For emergency financial aid.

**Class of 1949 Fund (1974).**

For an incoming freshman.

**Charles A. Dana Fund (1982).**

For students designated Dana Scholars, as specified in the guiding principles for the program.

**Babette Deutsch Fund (1978).**

For Barnard students who have demonstrated exceptional ability in poetry, criticism, or translation.

**Marie Ward Doty Fund (1981).**

Preferably to daughters of parents in law enforcement or related fields.

**Augusta Salik Dublin Fund (1960).**

For a student in a field of social welfare.

**Christine H. Eide Memorial Fund (1968).**

For juniors majoring in anthropology or English.

**Educational and Cultural Trust Fund of the Electrical Industry (1951).**

For daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers.

**May Parker Eggleston Fund (1972).**

For a science student, preferably one planning to attend medical school.

**English Fund (1920).**

Preferably for an English major.

**Gladys Renshaw Esterbrook Fund (1958).**

Preferably for English or French majors.

**Martha T. Fiske Fund (1911).**

For a student who is not a resident of the New York City area.



# Scholarship Funds

**Henry C. Kuever and Frederick W.A. Fuller Fund (1981).**

Preferably for a student majoring in music, or in Greek or mathematics.

**German Fund (1950).**

See Prizes, page 310.

**Virginia C. Gildersleeve International Fund (1937).**

For a foreign student.

**Virginia C. Gildersleeve Fund (1968).**

For a major in the humanities, preferably English.

**Elizabeth Hughes Gossett Scholars (1981).**

For freshmen or sophomores for academic achievement, demonstrated inclination toward public service, and leadership qualities.

**Julius Held Fund (1970).**

For students majoring in Art History

**Emma Hertzog Fund (1904).**

For a graduate of Yonkers High School.

**Marion Alice Hoey Fund (1944).**

Preferably for a student in Greek and Latin.

**Hannah and Henry Hofheimer Fund (1975).**

For a freshman.

**Holland Dames Fund (1915).**

For a descendant of early Dutch settlers.

**Lillia Babbitt Hyde Fund (1953).**

For premedical students.

**Charlotte Louise Jackson Fund (1928).**

For a graduate of a Yonkers High School.

**Mary E. Larkin Joline Fund (1927).**

For a student specializing in music.

**Werner Josten Fund (1955).**

Preferably for a student in music.

**Jessie Kaufmann Fund (1902).**

For a student who has no relative able to offer financial assistance.

**Kimball Fund (1938).**

For a student from Spain or one of the Spanish-American countries for study at Barnard or elsewhere, under the direction of the Barnard Department of Spanish.

**Eleanor Kinnicutt Fund (1911).**

For a sophomore of exceptionally high standing.

**Dr. Ann G. Kuttner Fund (1969).**

Preferably to premedical students.

**Ethel Stone LeFrak Prize and Scholarship (1986).**

For a student for excellence in the field of Arts, the balance as a grant to the prize recipient or a meritorious alternate.

**Bernard Liberman Fund (1979).**

For premedical students.

**Carolina Marcial-Dorado Fund (1953).**

For a student from Spain, or to a Spanish major continuing graduate studies in the United States or abroad or to a student who is majoring in Spanish.

# Scholarship Funds

**Raphael Marino Fund (1977).**

For a student proficient in Italian language, literature, art, or culture.

**Eugene F. and Minnie Gouger McGowan Fund (1955).**

Preferably for students from Mecklenburg County, North Carolina.

**Fannie Moulton McLane Fund (1961).**

For citizens of the United States preferably of Colonial or Revolutionary ancestry, or the descendants of a Civil War soldier.

**Mrs. Donald McLean Fund (1906).**

For a student of history (chiefly that of the United States).

**Ferry Starr Morgan Fund (1959).**

For a student majoring in music or philosophy.

**Lawrence Morris Fund (1968).**

Preferably for a nominee of the New York City Mission Society.

**Ruth Day Moser Fund (1983).**

For seniors majoring in sociology.

**Lucy Moses Fund (1975).**

For a premedical student.

**Julia Fisher Papper Fund (1974).**

For a senior of superior academic standing and high motivation.

**Mary Barstow Pope Fund (1913).**

For a nominee of a self-perpetuating committee representing the founders.

**Public Service Fund (1934).**

By the Women's Organization for National Prohibition Reform for students in their junior or senior years who show special promise for public service.

**Lucille Pulitzer Fund (1899).**

Three are restricted to students from the City of New York, eight are for resident students.

**Marie Reimer Fund (1953).**

See Prizes, page 309.

**Amelia Agostini de del Rio Fund (1955).**

For a student from Puerto Rico or a student who is majoring in Spanish.

**Lesley Jane Rosen Memorial Fund (1975).**

For a student who shows leadership quality and whose subject of interest is urban studies and/or political science.

**Dr. Harry Rosenstein Fund (1967).**

For a premedical student.

**Doris Schloss Rosenthal Fund (1981).**

For students majoring in courses in the Arts.

**Joan Rosof Fund (1964).**

For students from the State of New York.

**Felix St. George Scholarship (1955).**

For an incoming freshman studying physics, chemistry, or biology.

**Dorothy K. Scheidell Fund (1965).**

Preferably for premedical students.

**Lillian Schoedler Fund (1967).**

For students who show promise of civic leadership.



# Scholarship Funds

**Margarete Schwabe Fund (1974).**

For premedical students with outstanding ability and idealism.

**Roslyn Schiff Silver Fund (1982).**

For junior and senior students preparing for careers in medical research.

**Clarice Ann Smith Fund (1973).**

For students of literature and composition.

**Marion Wesley Smith Fund (1978).**

For students majoring in Anthropology.

**Hilda Staber Fund (1967).**

For foreign students.

**Estella Raphael Steiner Fund (1972).**

For a senior in Biological Sciences who plans to engage in research in that field.

**Beatrice L. Stern Memorial Fund (1977).**

For juniors and seniors in the life sciences or in the area of intergroup relations with special emphasis on those problems affecting minority welfare and acceptance in the American scene.

**Marion Levi Stern Fund (1977).**

Preferably for students in the social sciences.

**The Strauss Fund (1981).**

For handicapped students.

**Emma A. Tillotson Fund (1910).**

For a sophomore of exceptionally high standing.

**Clara Bittenwieser Unger Memorial Fund (1938).**

For a senior in political science who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution.

**Helen Elizabeth Vosburgh Fund (1934).**

Preference to a self-supporting student.

**Walter A. Wagener Memorial Fund (1984).**

For students majoring in Program in the Arts.

**Gertie Emily Gorman Webb Fund (1953).**

For a nominee of the Department of History.

**May Hessberg Weis Fund (1981).**

For students in environmental ethics and conservation.

**Esther Lensh Weisman Fund (1979).**

Preferably for a student majoring in English.

**Allison Wier Fund (1977).**

For students who are residents of Westchester County.

**Elsa P. Wunderlich Fund (1978).**

For a German exchange student.

**Alma Gluck Zimbalist Fund (1940).**

For students in political science.

# Scholarship Funds

## Loan Funds

The following loan funds are administered by the Committee on Financial Aid in accordance with terms specified by the donors and are regularly assigned as parts of students' financial aid awards.

- Associate Alumnae Student Loan Fund
- Barnard College Club of Cleveland Loan Fund
- Barnard College Loan Fund
- Ann Susan Becker Memorial Loan Fund
- Pauline Hirschfeld Loan Fund
- Gertrude C. Hitchcock Loan Fund
- Adelaide Le Ciercq Loan Fund
- Swope Loan Fund
- Tudor Foundation Student Loan Fund

The Morris Morgenstern Student Loan Fund provides temporary emergency assistance and is administered by the Office of Financial Aid.





# XVII. Honors

The following funds were established to honor those who have shown exceptional distinction in their chosen field of study and are administered according to the provisions of their respective donors.

## Fellowships

**Associate Alumnae of Barnard College Graduate Fellowship (1963).**

For a graduate who shows exceptional promise in her chosen field of work. Information and applications may be obtained in the Alumnae Office.

**Anne Davidson Fellowship Fund (1971).**

For graduating seniors who will pursue graduate study in conservation at a university of approved standing.

**George Welwood Murray Graduate Fellowship Fund (1930).**

For graduating seniors who show promise of distinction in the humanities and/or the social sciences and who will pursue graduate study at a university or college of approved standing.

**The Lillian Niederman Fellowship Award (1984).**

By Doctor Miriam S. Harris in memory of her mother, Lillian Niederman Shapiro. For a graduating senior who gives promise of distinction as physician and humanist.

**Josephine Paddock Fellowship Fund (1976).**

For graduating seniors who show promise of distinction in such field or graduate study in art as the faculty shall determine. Holders are to pursue studies preferably abroad at a college or university of approved standing.

**Grace Potter Rice Fellowship Fund (1935).**

For graduating seniors who show promise of distinction in the natural sciences or mathematics and who will pursue graduate study at a university or college of approved standing.

**Alpha Zeta Club Graduate Fund (1936).**

For graduating seniors who show promise of distinction or to outstanding recent Barnard graduates who are candidates for higher degrees.

**William Mason Scholarship (1928).**

Awarded periodically on recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music.

## General

**Estelle M. Allison Prize Fund (1937).**

For excellence in literature.

**Mary E. Allison Prize Fund (1937).**

For general excellence in scholarship.

**Frank Gilbert Bryson Prize (1931).**

For a senior who, in the opinion of the class, has given conspicuous evidence of unselfishness and who has made the greatest contribution to Barnard during the college years.

**The Columbia University Press Prize.**

Award of the Columbia Encyclopedia to the member of the sophomore class who has done the best writing for Barnard Bulletin.

**Eleanor Thomas Elliott Prizes (1973).**

Two prizes to juniors chosen by the Honors Committee from among the five most outstanding students in the class based upon overall academic record, integrity and good citizenship in the College.

# Honors

**Katherine Reeve Girard Prize (1964).**

For a student whose interests are in the international aspects of a major.

**Ann Barrow Hamilton Memorial Prize in Journalism (1978).**

For a graduating senior who will pursue a career in the field of journalism.

**Alena Wels Hirschorn Prize (1986).**

To be awarded alternately between an outstanding junior student journalist and a graduating senior major in Economics who also studies English literature and who wants to pursue a career in journalism.

**The Margaret Holland Bowl (1974).**

For excellence in leadership and participation in the Recreation and Athletic Association.

**Jo Green Iwabe Prize (1986).**

For disabled students.

**Margaret Meyer Graduate Fund (1952).**

For graduating seniors for instruction in secretarial work.

**Harry Salzman Internship Fund (1982).**

For an internship in Washington, D.C.

**Schwimmer Prize Fund (1986).**

For an outstanding graduating senior in the Humanities.

**Marian Churchill White Prize Fund (1975).**

For an outstanding sophomore who combines scholarly promise and service to class and college.

## Premedical

**Helen R. Downes Prize (1964).**

For graduating seniors who show promise of distinction in medicine or the medical sciences.

**The Michael T. Glynne Memorial Prize (1971).**

For a senior accepted by a medical school who has demonstrated outstanding achievement in the humanities and the social sciences as a non-science major.

**Ida and John Kauderer Prize Fund (1973).**

For premedical students majoring in chemistry.

## Art History

**Nancy Hoffman '66 Prize Fund (1983).**

For students in Art History or Program in the Arts who plan to enter museum or gallery work or art conservatorship.

**Virginia B. Wright Art History Prize Fund (1969).**

For promising seniors majoring in Art History.

## Biological Sciences

**Edna Henry Bennett Memorial Fund (1927).**

For work at a biological laboratory offering summer courses.

**The Herbert Maule Richards Fund (1933).**

For botanical research, under the direction of an approved institution.

**Herrmann Botanical Prize Fund (1892).**

For a proficient undergraduate student in biology.

**Donald and Nancy Ritchie Fund (1979).**

For biological study or research.



# Honors

## **Spiera Family Prize Fund (1986).**

For a student majoring in Biological Sciences.

## **Von Wahl Prize (1915).**

For advanced work in biology.

## **Chemistry**

### **American Institute of Chemists, New York Chapter.**

A subscription to "The Chemist," and a certificate of honor. For an outstanding student of chemistry.

### **Marie Reimer Scholarship Fund (1953).**

For a senior majoring in chemistry.

### **Bernice G. Segal Summer Research Internships Fund (1986).**

For supervised research in the sciences during the summer and to be awarded annually as one or more summer internships.

## **Economics**

### **The American Statistical Association Prize, New York Area Chapter (1960).**

A one-year student membership in the American Statistical Association. For an outstanding student in statistics.

### **Alena Wels Hirschorn Prize and Scholarship (1986).**

For a junior for the best essay on the subject of domestic or international economics.

### **Beth Niemi Memorial Prize Fund (1981).**

For an outstanding senior majoring in economics.

### **Katharine E. Provost Memorial Fund (1949).**

For superior work by an undergraduate major in economics.

### **Sylvia Kopald Selekmán Prize Fund (1960).**

For the freshman who is doing the best work in introductory economics.

## **Education**

### **Stephanie Kossoff Prize (1972).**

For the student who has made the most noteworthy contribution or meaningful endeavor in early childhood education.

## **English**

### **Saint Agatha Muriel Bowden Memorial Prize Fund (1971).**

For superior proficiency in the study of Chaucer and Medieval Literature.

### **W. Cabell Greet Prize Fund (1974).**

For excellence in English.

### **The Elizabeth Janeway Prize for Prose Writing.**

For a work of prose, which gives the greatest evidence of creative imagination and sustained ability.

### **Amy Loveman Memorial Fund (1956).**

For the best original poem by an undergraduate.

### **Leonore Marshall Barnard Prizes (1975).**

For the best prose and the best poetry published in a literary magazine of the college.

### **Sidney Miner Poetry Prize Fund (1962).**

For the senior major who has shown distinction in the reading, writing, and study of poetry.

# Honors

## **The Helen Prince Memorial Prize Fund (1921).**

For excellence in dramatic composition.

## **Stains-Berle Memorial Prize Fund in Anglo-Saxon (1968).**

For excellence in Anglo-Saxon language and literature.

## **The Academy of American Poets Prize. (Columbia University).**

For the best poem or group of poems by a student.

## **The Bunner Medal (Columbia University).**

To the candidate for a Columbia degree who shall present the best essay on any topic dealing with American literature.

## **Helene Searcy Puls Prize Fund (1984).**

By Louis Puls in honor of his wife Helene Searcy Puls '25. For the best poem in an annual student competition.

## **Van Rensselaer Prize. (Columbia University).**

To the candidate for a Columbia degree who is the author of the best example of English lyric verse.

## **George Edward Woodberry Prize. (Columbia University).**

To an undergraduate student of the University for the best original poem.

## **Environmental Conservation and Management**

### **Henry Sharp Prize Fund (1970).**

For an outstanding student majoring in the Program on Environmental Conservation and Management.

## **French**

### **Helen Marie Carlson French Prize Fund (1965).**

For the best composition in fourth-term French (BC 1204), or a similar course.

### **Isabelle de Wyzewa Prize Fund (1972).**

For the best composition in the French course, *Masterpieces of Literature from the Middle Ages to the Twentieth Century*.

### **Frederick G. Hoffherr French Prize (1961).**

To a student in intermediate French (BC 1203) for excellence in oral French.

### **Linda Joan Israel Prize in French (1977).**

To a senior French major for work done in *Advanced Oral French*, *Advanced Translation into French*, or an advanced French poetry course.

### **Eleanor Keller Prizes (1968).**

For juniors in French Literature and seniors in French culture.

### **Rosemary Thomas Prize Fund in French (1966).**

For evidence of a special sensitivity and awareness in the study of French poetic literature.

## **Geography**

### **Lillian Berle Dare Prize Fund (1974).**

For the most proficient Barnard senior majoring in geography who will continue to study in a related field.

## **German**

### **Dean Prize in German (1952).**

For the senior who has throughout college done the best work in German language and literature.

### **German Scholarship Fund (1950).**

For outstanding junior majors.



# Honors

## Greek and Latin

### **John Day Memorial Prize Fund (1986).**

For a high ranking sophomore in the field of Greek and Latin.

### **Earle Prize in Classics. (Columbia University).**

For excellence in sight translation of passages of Greek and Latin.

### **Jean Willard Tatlock Memorial Prize Fund (1917).**

For the undergraduate student most proficient in Latin.

## History

### **Eugene H. Byrne History Prize Fund (1960).**

For superior work by a History major.

### **The Jenny A. Gerard Medal (1908).**

Awarded annually to the student who is most proficient in Colonial History.

### **Ellen Davis Goldwater History Prize (1982).**

For superior work by a History major.

## Italian

### **Bettina Buonocore Salvo Prize Fund (1966).**

For a student of Italian.

### **Speranza Italian Prize Fund (1911).**

For excellence in Italian.

## Mathematics

### **Margaret Kenney Jensen Prize Fund (1973).**

For excellence in mathematics.

### **Kohn Mathematical Prize (1892).**

To a senior for excellence in mathematics.

## Music

### **Robert Emmett Dolan Prize. (Columbia University).**

To a student in any division of the University for instruction on a chosen musical instrument.

### **Ethel Stone LeFrak Prize. (1986).**

For a graduating senior whose creative writing in music shows promise of distinction.

## Oriental Studies

### **Taraknath Das Foundation Prize in Oriental Studies. (Columbia University).**

To a student in Barnard College, Columbia College, or the School of General Studies, for excellence in Oriental Studies.

## Philosophy

### **The William Pepperell Montague Prize Fund (1949).**

For promise of distinction in the field of philosophy.

### **Gertrude Braun Rich Prize Fund (1986).**

For a student majoring in Philosophy.

## Physics

### **Henry A. Boorse Prize Fund (1974).**

For the most promising Barnard sophomore in Physics.

# Honors

## Political Science

### **Phoebe Morrison Memorial Prize Fund (1969).**

For a political science major planning to attend law school.

### **James Gordon Bennett Prize. (Columbia University).**

For the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States.

### **The Caroline Phelps Stokes Prize. (Columbia University).**

For the best essay on any topic approved by the Stokes Prize Committee, which has been presented in course or seminar work.

## Psychology

### **The American Statistical Association Prize, New York Area Chapter (1960).**

See Economics listing.

### **Ida Markewich Lawrence '78 Prize Fund (1982).**

For the best paper in psychology, preferably child psychology.

## Religion

### **Samuel Dornfield Prize Fund (1979).**

For work in Old Testament or Ancient Near Eastern Studies that reflects special sensitivity and academic excellence.

### **Caroline Gallup Reed Prize Fund (1916).**

For outstanding work either in the field of the origin of Christianity and early church history or in the general field of the history and theory of religion.

## Russian

### **Alice Levin Sokolik Prize in Russian (1976).**

For the student who, in the course of her studies, has demonstrated the greatest love for the Russian language and literature.

## Spanish

### **The John Bornemann Prize in Spanish (1976).**

In memory of John Bornemann. A book for superior performance in the first or second year language courses.

### **Spanish Prize (1959).**

For a Spanish major who has done the most distinguished work in Spanish language and literature.

### **Susan Huntington Vernon Prize. (Seven Colleges).**

For the best original essay written in Spanish by a senior whose native language is not Spanish.

## Urban Studies

### **Suzanne Farkas Urban Affairs Prize (1972).**

For the best essay in Urban Studies.

## Women's Studies

### **Bessie Ehrlich Memorial Prize Fund (1980).**

For an oral history project of a female relative of a preceding generation, in conjunction with the Women's Studies Program.

### **Jane S. Gould Prize Fund (1982).**

For an outstanding senior essay by a Women's Studies major.



# XVIII. Statistics

	1889	1899	1909	1919	1924	1929	1934	1944	1954	1964	1974	1982	1983	1984	1985
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
1890	1900	1910	1920	1925	1925	1930	1935	1945	1955	1965	1975	1983	1984	1985	1986
<b>Undergraduates, Regular</b>															
Seniors.....	40	62	87	126	227	227	181	208	245	355	572	722	654	559	571
Juniors.....	40	122	190	259	237	237	220	314	340	414	554	645	506	563	543
Sophomores.....	37	109	193	234	247	247	226	314	317	391	488	496	544	512	538
Freshmen.....	54	188	224	271	311	311	267	324	304	415	437	507	509	531	510
Unclassified Students.....	—	—	—	57	54	54	103	56	1	8	—	—	—	—	—
14	171	481	694	947	1076	1076	997	1216	1207	1583	2051	2370	2213	2165	2162
<b>Special Students</b>															
Matriculated.....	21	24	39	—	—	—	—	—	—	—	—	—	—	—	—
Nonmatriculated.....	—	30	22	33	28	28	29	21	20	19	33	46	27	22	19
Departmental (1889-1896)....	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Music Students (1896-1905, 1914-1915).....	—	41	—	—	—	—	—	—	—	—	—	—	—	—	—
22	62	54	61	33	28	28	29	21	20	19	33	46	27	22	19
<b>Graduate Students</b>															
(1890-1900).....	—	82	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Total Registration</b>															
36	315	535	755	980	1104	1104	1026	1237	1227	1602	2084	2416	2240	2187	2181
<b>Degrees Conferred</b>															
A.B.....	39	88	139	198	247	247	221	270	258	367	497	602	705	612	538
B.S. (1909-1918).....	—	2	5	—	—	—	—	—	—	—	—	—	—	—	—
A.M. (1898-1900).....	—	18	—	—	—	—	—	—	—	—	—	—	—	—	—
Ph.D. (1899-1900).....	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—

Total Bachelor's Degrees conferred 1893-1986, A.B., 23,620, B.S., 77.  
These figures represent registration in the Autumn Term.





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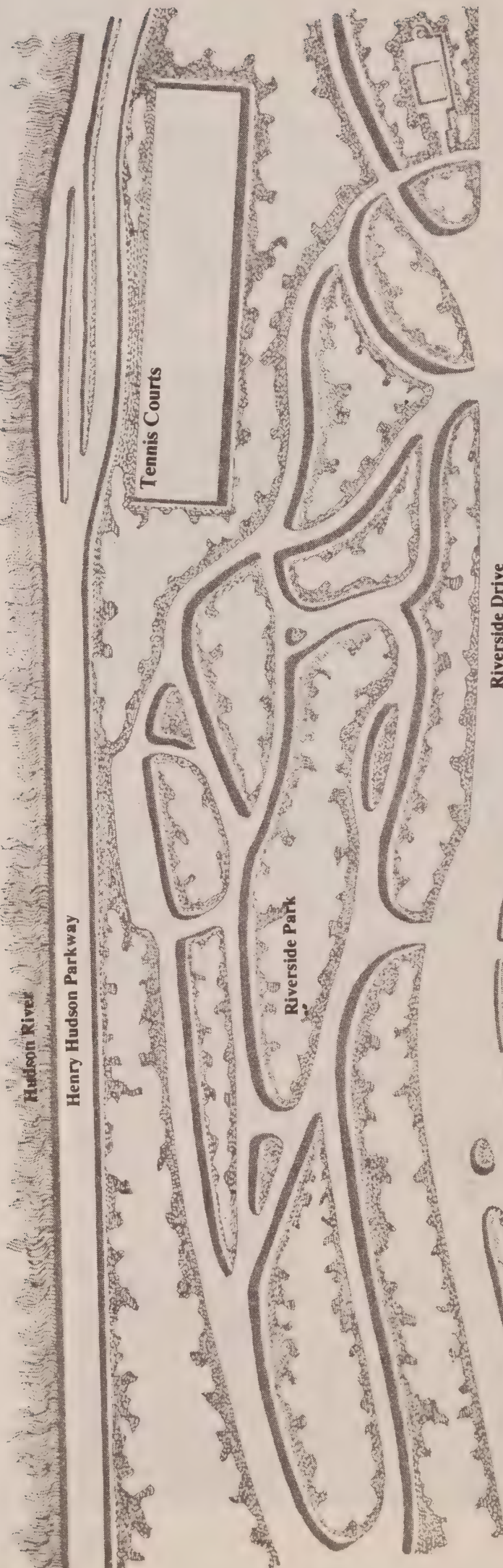
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**International House**

**Manhattan School of Music**

**Riverside Church**

**Union Theological Seminary**

**Interchurch Center**

**West 119th Street**

**Claremont Avenue**

**West 116th Street**

**IRT #1**

**West 115th Street**

**604-618**

**McVickar**

**Bank Street College of Education**

**Jewish Theological Seminary**

**Corpus Christi Church**

**Horace Mann**

**Thorndike**

**Pupin**

**Marcus Hartley D. Physical Fitness Center**

**Chambers**

**Havemeyer**

**Mathematics**

**Earl**

**Lee**

**Life and Visitor's Center**

**Dodge**

**Journalism**

**Furness**

**William Auditorium**

**Ferris Booth**

**Carman**

**Hogan**

**Robert W.**

**McBain**

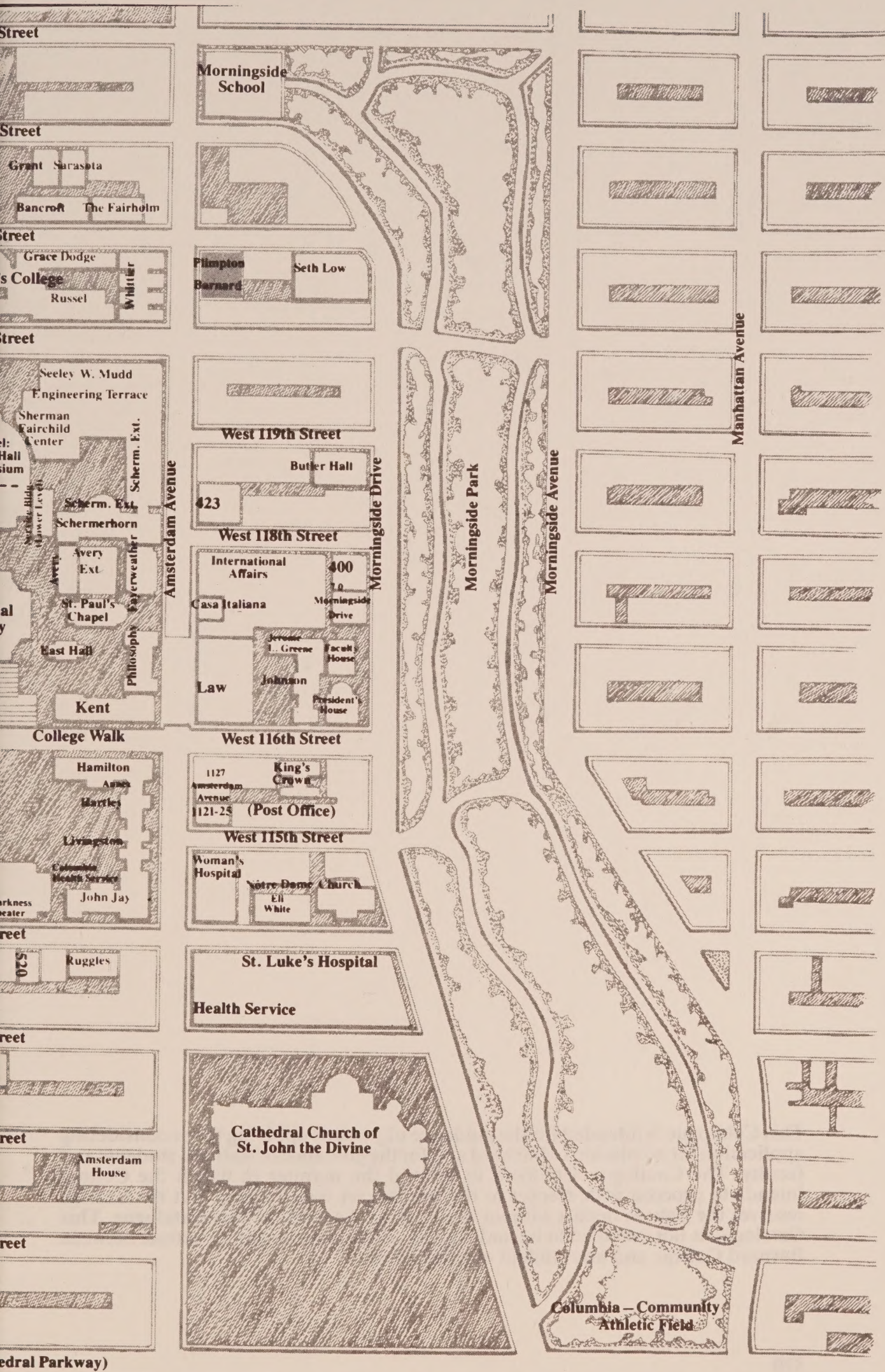
**Armstrong**

**Burgess**

**West 110th**

**Harmon**







This Catalogue is intended for the guidance of persons applying for or considering application for admission to Barnard and for the guidance of Barnard students and faculty. The Catalogue sets forth in general the manner in which the College intends to proceed with respect to the matters set forth herein, but the College reserves the right to depart without notice from the terms of this Catalogue. This Catalogue is not intended to be and should not be regarded as a contract between Barnard College and any student or other person.





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